

Kevyn Franco

Software Engineer
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Profile

As a seasoned Software Engineer with eight-year track record, I excel in crafting high-quality, efficient, and scalable solutions. Fluent in languages like Python, JavaScript, Dart, and C#, I specialize in developing both web and mobile applications. Leveraging frameworks such as Django, Flask, FastAPI, Node.JS, React, Vue, Angular, and Flutter, I've contributed to diverse sectors including E-commerce, Education, Health, Petroleum, and FinTech, handling projects of various scopes and complexities.

My analytical prowess and problem-solving abilities, combined with a keen attention to detail, empower me to work synergistically with cross-functional teams. I'm dedicated to applying best practices in software development to create systems that precisely meet client needs. Thriving in dynamic environments, I adapt swiftly to ensure success in fast-paced settings.

Skill Set

- Programming languages Python, C#, JavaScript, Typescript, Java, Swift, Kotlin, IOS
- Frameworks Django, Flask, React, Vue, Nuxt, FastAPI, Node.js, Flutter, kotlin, Switch, LangChain
- Software development tools Git, JIRA, Jenkins, Travis CI, RESTful APIs, GraphQL, Continuous Integration and Continuous Deployment (CI/CD), Github Actions.
- Automation deployment tools Kubernetes, AWS Fargate, Docker, Linux-based deployment
- Web development technologies HTML, CSS, jQuery, AJAX, NGINX
- Software design patterns Object-Oriented Design, Model-View-Controller (MVC), RESTful design, Microservices architecture
- Database technologies SQL Server, PostgreSQL, MongoDB, MySQL, Oracle, DynamoDB, Kafka
- Unit and integration tests Test-Driven Development (TDD), JUnit, Pytest, Jest, Cypress
- Cloud computing platforms Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), Azure AI
- Security tools Secure Software Development Lifecycle (SSDLC), OWASP Top 10, Basic Knowledge of SAST and DAST, Unicorn
- Queue technologies Redis, Celery, RabbitMQ, AWS SQS
- Containerization technologies Docker, Kubernetes (K8s)
- Agile methodologies Scrum, Kanban

Experience

2021 – Present (Aug – Present): EFEX United States | Mexico, Remote

Staff Python Engineer

- Efex:

EFEX is a leading company in simplifying international trade operations. We specialize in optimizing and streamlining import and export processes, ensuring that our clients can manage their operations efficiently and get paid faster. Our comprehensive approach covers everything from document management and compliance with international regulations to financing and logistics solutions. By relying on our services, businesses can focus on their growth and global expansion, leaving the complexities of international trade to us.

Project Description

Successfully managed and executed financial transfers to Colombia and the USA using various banking channels. This project involved ensuring secure and timely transactions while complying with international banking regulations.

- As Founder and Staff Engineer, spearheaded the end-to-end development and launch of an innovative money transfer platform, leveraging Python Django, FastAPI, and React, to facilitate seamless transactions between the USA, Mexico, and Colombia.
- Architected a scalable and secure AWS infrastructure, utilizing services such as EC2, S3, RDS, and Lambda, ensuring high availability and performance.
- Integrated advanced banking APIs including Evol, Chase, and Plaid, enabling real-time data acquisition and processing, significantly enhancing user experience and reliability.
- Led strategic negotiations with service providers, optimizing the account reconciliation processes and improving overall operational efficiency in the USA.
- Led the end-to-end development of a money transfer platform using React, Python (Flask), FastAPI, and AWS, ensuring high availability and security.
- Architected a scalable cloud infrastructure using AWS services (EC2, S3, RDS, Lambda) and implemented Infrastructure as Code (IAC) using Terraform.
- Integrated PostgreSQL for secure and reliable database management, ensuring seamless transaction processing.
- Directed the recruitment, onboarding, and training of a high-performing engineering team, ensuring alignment with project requirements and fostering a culture of excellence.
- Mentored and prepared the Technical Lead to assume leadership responsibilities, effectively guiding the team towards achieving project milestones and maintaining high standards.
- Pioneered the implementation of Docker for containerization and Kubernetes for orchestration, enhancing deployment efficiency and scalability.
- Utilized Celery for distributed task management, PostgreSQL for database management, and implemented CI/CD pipelines to streamline the development process.
- Ensured robust security practices, including the use of OAuth2.0 for secure authentication and data encryption protocols to protect sensitive information.
- Technologies: Python Django, FastAPI, React, AWS (EC2, S3, RDS, Lambda), IAC (Infrastructure as Code), Docker, Kubernetes, Linux, Celery, PostgreSQL, OAuth2.0, Git, Jenkins, Terraform, MongoDB, Typescript, Github Actions

2021 – 2022 (Jun – Dec) : Globant, Lima, Peru, Remote

Python Senior Developer

● 4Insite Project:

- Detected and fixed critical errors prior to QA testing.
- Analyzed and integrated external tools for project enhancement.
- Developed innovative features, significantly improving software functionality.
- Provided technical support to the Product Owner, enhancing project communication.

- Achieved a major milestone by restructuring the location endpoint, drastically improving application speed.
- Developed features using React to enhance front-end capabilities while managing PostgreSQL databases on the back-end.
- Implemented AWS cloud infrastructure with Docker and Kubernetes (K8) for scalable and efficient deployment.
- Participated in the integration of Python-based services with existing Scala microservices, ensuring interoperability and performance consistency across the platform.
- Technologies: Python 3, React, Docker, Linux K8, Celery, AWS, Postgres, Typescript, Github Actions.

● Squarespace Project:

- Identified and resolved hidden errors, ensuring high-quality deliverables.
- Assumed the role of Backend Technical Lead, overseeing project development.
- Created new features, contributing to platform scalability.
- Worked with data processing pipelines implemented in Scala and helped integrate them with AWS-based Python services.
- Maintained detailed records of activities and updates on JIRA.
- Technologies: Python 3, Docker, Linux K8, Celery, AWS, Postgres, AirFlow, Github Actions.

● FSISAC Project:

- Spearheaded the detection and correction of system errors, significantly enhancing the reliability of AWS-based applications.
- Pioneered the development and deployment of new features using AWS SAM, which streamlined serverless cloud operations.
- Provided consistent and comprehensive technical support to the Product Owner, focusing on leveraging AWS SAM capabilities.
- Assisted in optimizing a Scala-based analytics module by providing Python wrappers and API-level coordination.
- Utilized AWS SAM to facilitate agile development processes, enabling rapid deployment and efficient scaling of cloud services.
- Technologies: Python 3, Django, Docker, Linux K8, Celery, AWS, Postgres.

2021 - 2024: Contractor Projects, Various Locations, Remote (Mainly USA and Canada)

Python Senior Developer

● PWC (USA) (Jul – Sep 2021):

- Developed a centralized dashboard for monitoring and managing AWS cloud infrastructure, enhancing visibility and control over cloud operations.
- Integrated internal tools into the dashboard to streamline AWS processes, optimizing operational efficiency across the organization.
- Leveraged technologies such as Python 3 and Fast API to build a secure and responsive backend that supports real-time AWS process management.
- Implemented Docker, Linux, Kubernetes (K8), and Celery within the AWS ecosystem to ensure the dashboard's system scalability and robustness.
- Technologies: Python 3, Fast API, Docker, Linux, K8, Celery, AWS.

● Zen-business (USA) (Oct – Dec 2021):

- Led the development of new features for the e-commerce platform, enhancing user experience and functionality, using Python 3 and Django.
- Managed AWS cloud infrastructure, ensuring robust, scalable, and cost-effective solutions for the e-commerce environment.
- Addressed team issues and optimized workflows, resulting in improved project coordination and agile response to changing e-commerce market demands.
- Integrated Docker, Linux, Kubernetes (K8), and Celery for efficient deployment and

operation of e-commerce services, alongside leveraging GCP and AWS for cloud solutions.

- Technologies: Python 3, Django, Docker, Linux, K8, Celery, GCP, AWS.

- **Devon Energy (USA) (Jun – Mar 2022):**

- Develop and implement regression models, such as linear and logistic regression, to analyze geological data and predict optimal drilling conditions.
- Manage Azure cloud infrastructure, demonstrating flexibility and expertise in large-scale data processing and model deployment environments.
- Utilize Docker and Linux for deploying and maintaining robust application environments.
- Implement Kubernetes (K8) and Celery for efficient task management and orchestration of machine learning workflows.
- Technologies: Python 3, Fast API, Docker, Linux, K8, Celery, Azure.

- **Carvana (USA) (Apr – Jun 2022):**

- Developed new features and solved reported issues, enhancing platform functionality.
- Managed Azure cloud infrastructure, ensuring efficient operation and deployment.
- Utilize Redis for caching and managing session data, enhancing the efficiency of repeated scrapes.
- Leverage Kubernetes (K8) for orchestrating and managing containerized web scraping applications, ensuring scalability and reliability.
- Implement Fast API for building high-performance, scalable APIs to handle web scraping data.
- Use Postgres for robust data storage and management, ensuring integrity and accessibility of scraped data.
- Integrated OKTA for secure user authentication, utilizing OAuth 2.0 and SAML protocols to manage authorization and single sign-on (SSO), ensuring seamless and secure access to the platform's resources.
- Technologies: Python 3, Fast API, Docker, Linux, Redis, K8, Postgres, Celery, Azure OAUTH 2.0, SAML, SSO. MongoDB

- **Numerade (USA) (Jul – Aug 2022):**

- Led the development of new features and resolved critical issues.
- Facilitated team communication and workflow updates.
- Technologies: Python 3, React, Nginx, Docker, Linux, Redis, K8, Django, Postgres, WatchDog, Celery, AWS.

- **NECC (USA) (Sep – Oct 2022):**

- Responsible for web application design and development, focusing on Python frameworks.
- Managed PostgreSQL databases and utilized data analysis libraries for performance optimization.
- Technologies: Python 3, HTML, CSS, Nginx, Angular, Docker, Linux, Redis, K8, Flask Quart, Fast API, Postgres, AWS, MongoDB.

- **SELF (USA) (Nov – Dec 2022):**

- Spearhead the development and implementation of scalable software solutions using AWS, Python, Docker, and React.
- Drive the adoption of React Native for mobile application development, ensuring a seamless user experience across platforms.
- Leverage Flask and Linux to create robust backend systems, optimizing for performance and scalability.
- Collaborate with cross-functional teams to integrate innovative technologies and continuously deliver high-quality software.
- Technologies: AWS, Python, Docker, React, React Native, Flask, Linux, Typescript.

- **Meltwater (Canada) (Nov – Dec 2022):**

- Lead the design and development of advanced web and mobile applications, focusing on AWS, Python, and React Native.
- Utilize Docker and Linux to streamline deployment processes and maintain a stable production environment.
- Develop and maintain scalable backend services using Flask Quart, ensuring optimal performance and reliability.

- Innovate and implement new features while working closely with stakeholders to meet evolving business needs.
- Technologies: AWS, Python, Docker, React, React Native, Flask Quart, Linux, Typescript.

● Health Care (MVP) (USA) (Mar – Nov) 2022:

- Lead the design and development of advanced web and mobile healthcare applications, emphasizing the integration of LangChain for enhanced natural language processing and AI-driven functionalities.
- Utilize AWS, Python, and React Native to build robust, user-centric applications that cater to the dynamic needs of the healthcare industry.
- Employ Docker and Linux to ensure streamlined deployment processes and a stable production environment.
- Develop and maintain scalable backend services with Flask, focusing on high performance and reliability, especially in handling complex data processing and interactions enabled by LangChain.
- Drive innovation in healthcare technology by incorporating advanced AI and NLP features through LangChain, offering intuitive user interactions and intelligent data analysis.
- Work closely with stakeholders to continuously adapt and enhance application features, aligning with evolving healthcare standards and practices.
- Technologies: AWS, Python, Docker, React, React Native, Flask, Linux, LangChain for advanced NLP and AI capabilities, Typescript.

● Asella (USA) (Mar – Jul 2024):

- As a Staff Engineer at Asella, a startup focused on AI-driven search solutions, I led the development and foundation of the entire system using FastAPI, React, and AWS, ensuring a scalable and efficient architecture.
- Collaborated closely with the AI Engineer to design and implement a sophisticated search engine utilizing OpenAI, significantly enhancing the accuracy and relevance of search results.
- Designed and developed an AI-driven search engine utilizing FastAPI and React for a seamless full-stack application.
- Deployed the platform using AWS and orchestrated services with Kubernetes, ensuring scalability and efficient resource utilization.
- Established a robust infrastructure leveraging AWS services such as EC2, S3, Lambda, and RDS, optimizing for performance and scalability.
- Played a key role in integrating machine learning models to refine search algorithms, delivering high-quality results tailored to various domains.
- Provided comprehensive documentation and training, laying a strong foundation for future engineers to build upon and expand the system.
- Technologies: FastAPI, React, AWS (EC2, S3, Lambda, RDS), OpenAI, Docker, Kubernetes, PostgreSQL, Git, Jenkins, Typescript, Azure AI.

● CCAI-Shakira (US – El Salvador) (Jun 2023 – Jul 2024):

- Utilized FastAPI to implement a highly efficient and scalable backend infrastructure, optimizing the system for high-volume interactions across various government services.
- Played a pivotal role in leveraging AI models from Hugging Face to refine the chatbot's ability to handle complex queries in both Spanish and English, significantly improving response accuracy and user satisfaction.
- Established and optimized cloud infrastructure, utilizing AWS services such as EC2, S3, and Lambda, to ensure the chatbot could scale dynamically to meet growing demand.
- Collaborated with data scientists and engineers to integrate machine learning pipelines, enhancing the chatbot's ability to provide personalized responses based on historical interaction data.
- Provided extensive documentation and training, laying the groundwork for continuous improvements by future developers, and ensuring the long-term sustainability of the

project.

- Technologies: LangChain, Bern Akash, Hugging Face, FastAPI, AWS (EC2, S3, Lambda), Docker, PostgreSQL, Kubernetes, Git, Jenkins, Typescript, Azure AI.

2019 – 2021 (Jun – Dec) : **Wunderman Thompson, Lima, Peru**

Python Senior Developer

● **IZIPAY Project:**

- Proactively identified and resolved elusive errors, enhancing the platform's reliability before QA testing.
- Analyzed and recommended external tools for seamless integration, preparing the platform for future enhancements.
- Spearheaded the development of new features, enriching the platform's offerings and user experience.
- Provided indispensable technical support to the Product Owner, facilitating informed decision-making and project direction.
- Diligently documented progress and updates in JIRA, ensuring transparency and project traceability.
- Served as the Backend Technical Lead, guiding the team in creating robust and scalable backend solutions.
- Interfaced with internal payment scoring modules developed in Scala, implementing Python-based connectors for seamless data flow.
- Integrated Next.js to optimize server-side rendering and improve performance for dynamic content, enhancing the user experience.
- Technologies: Python 3, Nuxt, Vue, Nginx, Angular, Linux, Redis, Django 2.2, Graph DRF, NodeJS, Postgres, Next.JS.

● **ALICORP Project:**

- Conducted in-depth error detection and resolution, ensuring the platform's robustness for QA testing.
- Performed a comprehensive analysis of external tools, identifying those that could be integrated to extend the platform's capabilities.
- Drove the development of innovative features that bolstered the platform's functionality and user engagement.
- Collaborated on integrating Scala-based recommendation engine with Python backend services for personalized product delivery.
- Introduced Next.js to improve server-side rendering and enhance SEO performance across key product pages.
- Acted as a technical liaison for the Product Owner, providing timely and accurate responses to complex queries.
- Technologies: Python 3, Vue, Nginx, Linux, Angular, Redis, Django 2.2, Graph DRF, Postgres, Next.JS.

2020 – 2020 (Jun – Dec) : **Fio Corporation, Lima, Peru**

Python Senior Developer

● **FIO Project:**

- Led the development of a platform aimed at virtual credit card services.
- Key achievement: Implemented Experian Financial Evaluation Service, improving client evaluation processes and minimizing financial risks.

- Technologies: Python 3, Vue, Nginx, Linux, Redis, RabbitMQ, Django 3.0, Django REST Framework (DRF), Postgres.

2020 – 2020 (Jun – Jun): **Corande, Lima, Peru**

Python Senior Developer

- **Corande ERP Project:**

- Directed the development of a custom ERP system for agricultural project quotations and maintenance.
- Major contribution: Provided crucial analytical insights, realigning the client's understanding of ERP systems to ensure smooth project flow and successful implementation.
- Technologies: Python 3, Nginx, Linux, Django 3.0, DRF, Postgres.

2019 – 2019 (Jun – Dec): **Pathfinder International, Lima, Peru**

Python – Android Senior Developer Jun-Dic

- **VIH Project:**

- Developed the VIH Android application, integrating AI algorithms to improve data collection efficiency in remote areas with limited internet connectivity.
- Engineered offline functionalities leveraging AI models that preprocess and validate data locally, enabling effective data capture without internet dependency.
- Implemented a synchronization mechanism to batch-upload the processed data to servers once connectivity is restored, using Python 2.7 and Java.
- Applied machine learning techniques to classify and prioritize data, ensuring critical information is transmitted first during intermittent connectivity.
- Utilized Postgres for local data storage on the device, optimizing for performance and data integrity in an offline environment.
- Technologies: Python 2.7, Java, Postgres.

Earlier Roles 2017-2018: Jun-Dic

- Data Automation Specialist at Banco de Credito del Peru: Automated complex data extraction and report generation processes, leading to a significant reduction in turnaround times. Technologies: C#, Java, SQL Server, Oracle, MySQL.
- Process Optimization Developer at Universidad de Lima: Streamlined the certification process, reducing processing time from one month to four hours, showcasing exceptional problem-solving skills. Technologies: Python, Java.

Education

2012 - 2018 **Bachelor's Degree in System Engineer**
Universidad de Lima, Lima, Peru