




Emad Siddiq

San Francisco, California

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Experience

py-de

Co-Founder & Technical Lead

Los Angeles, CA

Nov 2023 – Present

- Designed and developed an AI-native Python IDE with integrated local and cloud computing capabilities, enabling developers to transition seamlessly across environments using built-in browser based SSH.
- Implemented robust, enterprise-grade security protocols using Go and WebSockets, ensuring secure, real-time communication and safeguarding sensitive data transmission in AI-driven workflows.
- Created a ChatGPT-powered coding assistant that delivers intelligent, contextual support for developers, targeting an \$18B AI tooling market projected to grow to 16.8M AI/ML developers by 2026.

Flexport

Software Engineer | Identity & Access Management

San Francisco, CA

Nov 2022 – Nov 2023

- Transitioned the OAuth 2.0 framework from Ruby on Rails to a new Java microservices architecture, successfully migrating over 200,000 users and simplifying API integration for developers across applications.
- Integrated major acquisitions, including Deliverr and Shopify Logistics, into a unified OAuth experience for developer teams, saving \$250,000 annually by eliminating reliance on an external OAuth provider.
- Authored detailed technical documentation for a security review of the new OAuth APIs, receiving full approval from the compliance team, and enhanced IAM PR test coverage with Jacoco and Github Actions.

Fin3 Technologies

Software Engineer | Full Stack

New York, NY

January 2022 – November 2022

- Developed expertise in blockchain cryptography and smart contracts by building dApps for Provenance, a proof-of-stake chain using Tendermint core.
- Created AWS-hosted, containerized Java applications with Docker and Kubernetes for tokenized deposits on Stellar, and tested Rust dApps with CosmWasm and Cosmos SDK.
- Designed a Bitcoin mining monitoring system for financial metrics using Coin Metrics API, and integrated XML-based banking APIs with Java Spring Boot for instant payment on proprietary distributed ledgers.

UC Berkeley Law School

Research Associate Data Science

Berkeley, CA

September 2019 – May 2020

- Mined over 50GB of historical XML of patent data (1850-present) from the United States Patent and Trademark Office (USPTO) and created scripts to work with batches of the data in Jupyter Notebook
- Extracted, transformed and loaded the data using a 5GB remote Linux instance offered as a free service by the Statistics department, parallelizing ETL algorithms by taking advantage of multithreading in Python
- Implemented NLP algorithms based on tf-idf and cosine similarity to match company names to trademark data very fast and efficiently, bringing down dataset processing time from weeks to hours

Education

University of California, Berkeley

B.A. Data Science, B.A. Political Economy

2017 – 2021

GPA: 3.24

Languages: C, Java, R, Python, Julia, C++, C#, Go, Rust, Golang, TypeScript, React, CSS, Javascript, PHP, Ruby
Frameworks: Spring Boot, Kubernetes, Minikube, Next.js, nginx, PyTorch, networkX, Mockito, Maven, TensorFlow, PostgreSQL, GraphQL, Grafana, NLTK, MFA, OAuth 2.0, S3, OIDC, RBAC, Gradle, Bazel, Keras, Pandas, Sentry