Emad Siddiq

San Francisco, California

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(7)	github.com/emad-siddiq
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emad-siddiq.github.io

Experience

py-de Los Angeles, CA

Co-Founder & Technical Lead

Nov 2023 - Present

- Designed and developed an Al-native Python IDE with integrated local and cloud computing capabilities, enabling developers to transition seamlessly across environments using built-in browser based SSH
- Engineered robust enterprise-grade security infrastructure using Go and WebSockets technology, enabling secure real-time communication and data transmission across distributed development environments
- Integrated advanced ChatGPT capabilities into the development environment, providing developers with contextual code assistance, intelligent autocompletion, and comprehensive interactive debugging features

Flexport San Francisco, CA

Software Engineer | Identity & Access Management

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 New York, NY

Software Engineer | Full Stack

January 2022 - November 2022

- Gained significant expertise in blockchain cryptography and smart contracts by building enterprise-scale dApps for Provenance, an in-house proprietary proof-of-stake chain, powered by the Tendermint core.
- Built and deployed containerized AWS-based Java apps using Docker & Kubernetes for tokenized deposits on the Stellar network and conducted extensive testing of Rust dApps with CosmWasm and Cosmos SDK.
- Designed a Bitcoin mining monitoring system for network statistics 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

Berkeley, CA

Research Associate Data Science

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

2017 - 2021

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

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