Emad Siddiq

San Francisco, California

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Experience

py-de **Remote**
Co-Founder & Technical Lead *Nov 2023 – Present*

- Designed and developed a web-based Python IDE with support for one-click transition from local compute to cloud compute by providing a browser-based SSH terminal powered by Go & WebSockets.
- Integrated AI agents by calling ChatGPT, Claude and Stable Diffusion's APIs, providing contextual development and debugging assistance from within the IDE

Flexport **San Francisco, CA**
Software Engineer | Identity & Access Management *Nov 2022 – Nov 2023*

- Replaced existing Ruby on Rails based Login and Signup framework with new OAuth 2.0 compliant Java microservices, migrating over 200,000 users and onboarding developers for using the new APIs.
- Integrated Flexport's acquisitions Deliverr and Shopify Logistics with the new services for a unified OAuth experience across developer teams, leading to $250,000 savings from our external OAuth vendor.
- Authored comprehensive technical documentation and security review for the new IAM APIs and regularly performed on-call duties using telemetry frameworks like Grafana, Datadog, and Sumologic.
- Created a Github Actions workflow commenting test coverage on IAM repo's using Java's Jacoco library.

Fin3 Technologies **New York, NY**
Software Engineer | Full Stack *January 2022 – November 2022*

- Built containerized dApps using Cosmos SDK and the Tendermint Core and deployed them to AWS with Docker and Kubernetes, while conducting extensive testing through Java Spring Boot interfaces.
- Integrated XML-based banking APIs like Fiserv with in-house services interfaced to in-house proprietary proof-of-stake blockchains enabling instant bank payments using a blockchain based ledger.
- Engineered a bridge between traditional banks and blockchain using the Stellar network by building asset tokenization APIs , enabling fast and secure digital asset transfers for institutional clients
- Designed and deployed a Bitcoin hashrate monitoring system in Python for pool-mining lenders and provided additional network statistics such as difficulty, metrics & network fees using Coin Metrics' API.

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 for ETL to run on a 5GB remote Linux instance
- 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, C++, C#, Go, Rust, Golang, TypeScript, React, CSS, Javascript, Ruby

Frameworks: Spring Boot, Kubernetes, Minikube, Next.Js, nginx, PyTorch, networkX, Mockito, Maven, TensorFlow, PostgreSQL, GraphQL, Grafana, NLTK, OAuth 2.0, S3, OIDC, RBAC, Gradle, Bazel, Keras, Pandas, Sentry