Emad Siddiq

Irvine, California

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Experience

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

- Replaced existing OAuth 2.0 Login & Signup framework implemented in Ruby on Rails with new Java microservices, migrating over 200,000 users and onboarding developers for using the new APIs in their apps
- Integrated multi-billion dollar 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
- Generated test coverage for draft IAM repo pull requests by parsing Jacoco csv data with pandas and commenting tabulated test coverage changes as a comment on the PR through a Github Actions script
- Authored comprehensive technical documenation and security review for the new IAM APIs which underwent thorough vetting from the security compliance team and was approved with positive remarks
- Regularly performed on-call duties using telemetry frameworks like Grafana, Datadog & Sumologic

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

- Gained expertise from FinTech titans in blockchain cryptography and smart contracts by building dApps for Provenance, an in-house proprietary proof-of-stake chain, powered by the Tendermint core
- Built 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 and deployed a Bitcoin mining monitoring system for bankers interested in bitcoin network statistics like difficulty, hash rate, metrics, network fees and other metrics from Coin Metrics' API
- Integrated data from XML based bank APIs with in-house Java Spring Boot services, enabling instant bank payments on proprietary distributed ledgers and worked with traditional banking API's like Fiserv

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
- Visualized and presented data patterns with pandas and matplotllib in weekly meetings to our project lead, Dr. Su Li

Education

University of California, Berkeley — **2017 – 2021**
B.A. Data Science, B.A. Political Economy — **GPA:** 3.24

- **Relevant Courses:** Machine Learning (CS 189), Stochastic Processes (INDENG 173), Probability Theory (STAT 140), Advanced Algorithms (CS170), Econometric Analysis (ECON 141), Linear Algebra (MATH 54)

Skills

Languages: C, Java, R, Python, Julia, C++, C#, Go, Rust, Golang, TypeScript, React, CSS, Javascript, PHP, Ruby
Software: 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