SAMI AMER

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OBJECTIVE

Hardworking, collaborative MIT graduate with professional industry experience interested in a challenging and rewarding full-time position, specifically in backend and distributed systems.

EDUCATION

Massachusetts Institute of Technology   Cambridge, MA ● 2019 – 2023

B.S. Computer Science & Cognitive Science

Relevant Coursework: Algorithms, Data Structures, Discrete Math, Machine Learning, Artificial Intelligence, Statistics

EXPERIENCE

Databricks, Software Engineer   San Francisco, CA ● Aug 2023 – present

- Built internal employee review platform using Go, React + TS, GraphQL
  - Leading Slack Integration project, from Req. Gathering to Design to Implementation
  - Used by entire company, handling tens of millions of requests during launch of each cycle
  - Developed replacement for SaaS Tool ($500k/yr takeout)
- Developed Chrome Application Frontend and Backend with TypeScript + Node.JS, utilized OAuth2
- Solo developed Retrieval-Augmented Generation LLM solution w/ Kubernetes, Postgres, Redis, Python + Go
- Independently created secure internal transcription service, sped up end-to-end process by ~300%, used weekly
- Led Observability and Monitoring for all services in the team – logging, alerts, escalation, on-call, etc.
- Wrote, edited, and reviewed Product and Design Documents
- Responsible for the infrastructure and deployment for the team, used Docker, Kubernetes; taught teammates
- First Place in FY2024 Hackathon, Judge's Choice in Q1 FY2025 Hackathon

IBM, Backend Software Engineering Intern   Cambridge, MA ● Jun – Aug 2022

- Independently reduced build times for international team & enterprise customers by up to 400% with Docker
- Developed and deployed a containerized Python app with full testing suite; published for use with IBM's premier enterprise security solution, 15+ downloads

MIT LIDS, Research Intern   Cambridge, MA ● Sep 2021 – Jun 2022

- Created a full stack Python application with GUI to expedite RNA sequencing for Mass. Gen. Hospital researchers

Learn Ventures, Software Engineering Intern   Cambridge, MA ● Winter 2020 & Summer 2021

- Developed a data simulator for testing image registration and a unit-testing suite for the company's Starfish pipeline

PROJECTS

Twitter Auditor: Using the Blockchain to Hold Public Officials Accountable   Sep 2021 – Aug 2022

- Created an open-source tool to track tweets by public officials; scaled to 500+ targets, 30+ tweets per second
- <u>Relevant tools:</u> Rust, Python, blockchain, AWS, PostgreSQL, Docker

Improving Art Style Classification through CNN Re-training and Diverse Data   Feb – May 2022

- Implemented and improved the methods of Lecoutre *et al.* 2017, outperformed Lecoutre *et al.* by 5%.
- <u>Relevant tools:</u> Python, PyTorch, TensorFlow

Intercellular Signaling Patterns in Progression of Alzheimer's Disease (AD)   Feb – May 2022

- Strengthened connection between aging and AD through cell-cell communication data
- Achieved 90% faster load times with custom caching and concurrency scripts in Python

SKILLS

Programming

Python ● Go ● TypeScript/JavaScript ● C++ ● Rust ● R

Software Expertise

Docker ● Kubernetes ● Postgres/SQL ● GraphQL + REST APIs● Azure ● Unit Testing ● CI/CD ● AWS ● OAuth2 ● Qt (GUI) ● PyTorch ● Git ● Linux ● Distributed Ledgers ● Redis