

SAMI AMER

✉ sami@sami.ps

☎ 614-962-3317

🌐 www.sami.ps

🐙 [sami-amer](https://github.com/sami-amer)

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, L3

San Francisco, CA • Aug 2023 – present

- Developing Chrome Application Frontend and Backend with TypeScript + Node.JS, utilized OAuth2
 - Scaled to 125+ users during pilot testing phase (ongoing)
- Solo developed Retrieval-Augmented Generation LLM solution w/ Kubernetes, Postgres, Redis, Python + Go
 - Scaled to 100+ users during pilot testing phase
- Independently created secure internal transcription service, sped up end-to-end process by ~300%
- 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.
- Drove adoption of engineering practices; integrated Formatting, Linting, Unit Testing + more.
- First Place in FY2024 Hackathon, Judge's Choice in Q1 FY2025 Hackathon.
- Interviewed L3 candidates, shadowed L4 interviews.

 **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
- Relevant tools: 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%.
- Relevant tools: 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 • TypeScript/JavaScript • Go • C++ • R • Rust

Software Expertise

Docker • Kubernetes • Postgres/SQL • Azure • Unit Testing • CI/CD • AWS • OAuth2 • Qt (GUI) • PyTorch • REST APIs • TensorFlow • Git • Linux • Jupyter • JIRA • Distributed Ledgers • Redis