

Josiah McMenamy

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EDUCATION

MIT, School of Engineering GPA: 5.0/5.0

Cambridge, MA

Bachelor of Science in Computer Science and Engineering

May 2024

Master of Engineering in Computer Science and Engineering, concentrating in Computer Systems

May 2025

Yuba Community College GPA: 4.0/4.0

Yuba City, CA

Associate of Science in Mathematics while graduating high school

May 2020

Technical Skills: Typescript, Kotlin, Python, PHP, SQL, Git, HTML, CSS, JavaScript, React, C, C++

Relevant Coursework: Software Performance Engineering, Design and Analysis of Algorithms, Operating Systems Engineering, Computer Systems Engineering, Elements of Software Construction, Fundamentals of Programming

RELATED EXPERIENCE

Toast: *Software Engineer Intern*

June - August 2023

- Created Pulsar code to consume from a new topic and update customers' settings in AWS DynamoDB
- Migrated internal API calls from deprecated to new services, improving service stability
- Upgraded an customer-facing SPA to react 18, as well as fixed a rendering bug and path traversal security issue
- Refactored Pulsar consumer code with the handler pattern, increasing readability and readiness for change
- Utilized Kotlin, dependency injection (Google Guice), Gradle, Result Monad, Splunk logging, Postman, GraphQL, and feature flags for safe production deployment

Comcast (FreeWheel): *Software Engineer Intern*

June - August 2022

- Built a novel service to capture cost metric KPIs for the UserData team, analyzing \$3M in annual spend
- Leveraged technologies including Snowflake, AWS Services (CloudWatch, S3, ECR, EKS), ArgoCD, Kubernetes, and Docker
- Collaborated with the SRE team by creating an observability dashboard on Grafana cloud, utilizing a Prometheus push gateway
- Refactored AWS Lambda code with the factory design pattern and contributed to an internal metric library

National Security Innovation Network: *Database Analyst Intern*

June - August 2021

- Wrote database requirements for the redesign of the U.S. Army's Ration Analysis System
- Researched and provided detailed guidance on the best cloud solutions for their database, such as Microsoft Azure
- Presented to senior leadership and provided a comprehensive report on the different cloud solutions

Association of Marshall Scholars: *Software Engineer Intern*

January - February 2021

- Developed a secure platform for AMS alumni and current students to connect with each other
- Worked with front-end and back-end development, PHP, and SQL
- Identified best practices to maintain security of users' information; password hashing, sanitizing user input

Cisco Systems (WebEx): *Software Engineer Intern*

June - August 2020

- Completed enhancements, bug fixes, and feature requests for the internal diagnostic tool 'call tracker'
- Supported both the US and EMEA based WebEx development teams
- Utilized Git, HTML, CSS, JavaScript, Python, and Ajax working within traditional Jira driven scrum/sprint sessions

OTHER EXPERIENCE

MIT COMMIT Group: *Undergraduate UROP*

February - May 2023

- Researched and implemented strategies to use cloud resources and caching to improve compile times

MIT Department of EECS: *Undergraduate TA*

January 2023 - Present

- Edited course material, staffed office hours, graded student assignments, and proctored exams for elements of software construction (6.102) and fundamentals of programming (6.101)