

# Josiah McMenemy

Boston, MA | [josiahjmcm@gmail.com](mailto:josiahjmcm@gmail.com) | 916-572-9078 | [linkedin.com/in/josiah-mc](https://www.linkedin.com/in/josiah-mc) | [web.mit.edu/josiahmc/www](https://web.mit.edu/josiahmc/www)

## EDUCATION

---

<b>MIT, School of Engineering</b> <i>GPA: 5.0/5.0</i>	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
<b>Yuba Community College</b> <i>GPA: 4.0/4.0</i>	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, Cryptography and Cryptanalysis, Introduction to Inference, Probability and Random Variables

## 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 chain of responsibility pattern, increasing 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)