

Josh McFarlin

<https://mcfarl.in>

josh@mcfarl.in
770-265-2664

github.com/Josh-McFarlin

Experience

Microsoft

August 2022 – Present

Software Engineer

- Independently began the development of new software tooling for security researchers by creating React web apps that interact with Azure Serverless hosted Python and TypeScript APIs.
- Developed high-performance and scalable APIs using serverless functions while supporting developers by requiring OpenAPI documentation for all services.
- Participated in product demos and feedback sessions that led to the establishment of new partnerships with other teams to share and ingest new data through teams respective APIs.
- Identified areas lacking tooling when working on assigned features to independently develop two internal tools for visualizing and creating advanced data models used by security researchers.
- Leveraged a combination of SQL and TinkerPop Graph databases to optimally store and query complex data sets while designing automated pipelines for ingesting and validating data.

Zeal

August 2020 – December 2020

Co-Op Full-Stack Software Engineer

- Created new pages on customer and admin dashboards using React, allowing for better analysis of outgoing and historical payments and interaction with third-party services.
- Expanded multi-tenant authentication system to support additional tiers of user access through the creation of Node API endpoints and the creation of new pages in a React web app.
- Developed and implemented a method for white-label applications using AWS Cloudfront, AWS Lambda, and DNS records.
- Independently developed a new React Native library for handling client onboarding through REST APIs.

BetterCloud

January 2019 – May 2019

Software Engineer Intern

- Developed internal tooling consisting of React web apps interacting with Java Spring REST APIs.

Education

Georgia Institute of Technology

August 2017 – May 2022

Bachelor of Science in Computer Science

Leadership & Involvement

Bits of Good

September 2019 – January 2021

Engineer and Manager

- Served as an engineering manager for Bits of Good, a Georgia Tech organization pairing students with local nonprofits to code custom software for different needs.
- Led the development of a mobile-first web app for an organization creating a social media network connecting young women with mentors.
- Worked with a product manager to develop a feature roadmap and coordinated work among developers by assigning tasks and providing help as needed.

Projects

Sllow

January 2021 – May 2021

- Collaborated with a team to create a system capable of real-time behavior modification for negative eating behaviors.
- Led the development of an Angular and Ionic mobile app for interacting with a measurement device to measure eating behavior, notify potential improvements, and display historical data for long-term trends.
- Built an Arduino circuit with accompanying code for sending live data from a sensor over a Bluetooth connection.

Skills

Languages: JavaScript, TypeScript, Python, Java

Libraries and Frameworks: React, Next.js, Redux, Jest, Node.js, Express, FastAPI

DevOps: Git, Docker, Gradle, Azure, Amazon AWS, Google Cloud

Databases and Content Delivery: MongoDB, SQL, TinkerPop, Gremlin, Cloudflare, Cloudinary, Sanity