Michael Maxwell

SOFTWARE ENGINEER   SEATTLE, WASHINGTON

✉ yo@micmax.pw | 🏠 www.micmax.pw | ⓖ mic-max | ⓛ micmax

Summary

An accomplished software engineer with 4 years at Microsoft, I've thrived in collaborative environments, within my team & the broader open-source community. With a solid background in computer science & a passion for crafting exceptional products, I've consistently been valued for my dedication & problem-solving skills. I prioritize effective communication & a solutions-driven mindset in every project.

Skills

Languages C#, Python, JavaScript, Node.js, C/C++, French, Java, React, HTML, CSS, SQL, NoSQL
Development Git, Azure, AWS, Linux, Serverless, Docker, Agile, GitHub, Protocol Buffers, REST APIs, SDK Development

Work Experience

Microsoft   *Redmond, WA*
SOFTWARE ENGINEER II — AZURE OBSERVABILITY   *Aug 2021 - Mar 2023*
- Contributed to the OpenTelemetry .NET SDK and worked with members of the community.
- Primary contributor, approver role, & initiator of a community OpenTelemetry Demo — 8+ languages, 1400+ stars, 100+ contributors.
- Used BenchmarkDotNet to identify how many buckets a histogram must have for binary search to outperform linear search.
- Added the capture of minimum and maximum value to histograms, ensured bounds in ascending order & distinct.
- Managed daily repository PR & issue monitoring and maintained alignment with API requirements & release timelines.
- Ensured thread-safe testing & addressed community-reported bugs promptly while communicating effectively with the team.

Microsoft   *Redmond, WA*
SOFTWARE ENGINEER — EDGE EXPERIMENTATION   *Jun 2019 - Aug 2021*
- Enabled safe feature experiments with a C# serverless PR approval bot enforcing rules.
- Developed an internal system for cataloging & monitoring 2000+ product features to ensure interoperability.
- Transitioned from daily email reports to a dashboard, reducing review time from hours to minutes per week.
- Parsed daily C++ code from Edge and Chromium to identify these feature struct definitions and included platforms.
- Implemented ingestion and decoding of Chrome's experiment service protobuf into blob storage & database every 15 minutes.

Martello Technologies   *Kanata, CA*
SOFTWARE DEVELOPER — SUMMER STUDENT   *Apr 2018 - Aug 2018*
- Revamped a legacy dashboard with reusable custom UI components in Vue.js & a REST API.
- Created a suite of asynchronous tests for CRUD operations on containers & devices using Mocha.
- Presented the project's progress every 2 weeks to the management team, shareholders & other developers.

Carleton University   *Ottawa, CA*
TEACHING ASSISTANT — WEB DEVELOPMENT &   *Sep 2016 - Dec 2018*
- Collaborated with other teaching assistants to both create rubrics & fairly grade assignments.
- Conducted weekly workshops surrounding the course's content & provided assistance during my office hours.

Projects

Mobile App — Internet over SMS   *Ottawa, CA*
THIRD YEAR SOFTWARE ENGINEERING PROJECT   *Sep 2017 - Jan 2018*
- Developed an Android app for accessing cloud services via Twilio without WiFi.
- Implemented secure request transmission with encoding, encryption, and chunking.
- Created Node.js Cloud Services for tasks like Web Search, Maps, Lyrics, News, and Website Loading.
- Led a 4-person team, managing tasks, reviewing code, and building server infrastructure with a custom protocol.

Education

Carleton University   *Ottawa, CA*
BACHELOR OF COMPUTER SCIENCE HONOURS: SOFTWARE ENGINEERING   *Sep 2015 - Apr 2019*
- Web developer & event coordinator for the cuHacking hackathon & Safe Walk Program volunteer.
- Parallel & Distributed Programming, Data Structures & Algorithms, Testing & QA, Web Development, Product Management.