Liam Earle

laearle@mun.ca 1 (709) 631-9969 liamearle.ca GitHub: liam-earle LinkedIn: Liam Earle

Experience

Amazon **Aug 2024 – present**

Software Development Engineer - Amazon Robotics

- Architected and developed a method of creating new fulfillment metrics dashboards reducing development time by 50%.
- Incharge of porting legacy dashboards to a new stack, contributing to the deprecation of vulnerable software.
- Discovered and fixed UI bugs in metrics platform, improving user experience and functionality on mobile devices.
- Demonstrated expertise in creation and deployment of new services, using technolgies such as AWS Lambda, DynamoDB, S3, and Athena.

Bluedrop ISM **Jan 2022 – Aug 2022, May 2023 – Aug 2023, Jan 2024 – April 2024**

Full-Stack Developer

- Architected and developed a metrics and telemetry system cutting down bug diagnosis time by 25%.
- Performed major project refactor to ensure platform security and stability, reduced vulnerabilities from 200 to 0.
- Developed a new feature to allow for organization admins to customize links to align with an organizations own privacy policy and terms of service.
- Demonstrated expertise in deployment of new web services, ensuring seamless integration, and leveraging containerization technologies like Docker and Kubernetes.

Memorial Baja **Dec 2022 – present**

Software Team Lead (Extra Curricular)

- Developed a digital gauge cluster for the team's vehicle to clearly display accurate vehicle diagnostics to the driver.
- Mentoring junior students in software development and embedded systems in the C programming language.

Paradigm Engineering **Sept 2023 – present**

Software Team Member (Extra Curricular)

- Mentoring junior students in software development, Linux, ROS2, and environment setup.
- Developing the core ROS2 software suite for the team's autonomous vehicle to navigate through the Autonomous Karting Series competition.

MUNStar-1 **Aug 2023 – present**

Software Team Member (MCS) (Extra Curricular)

- Developing the FreeRTOS-based operating system for the team's satellite to manage the satellite's subsystems.
- Architecting CI/CD pipelines for the satellite's software to ensure the software is tested and deployed efficiently.

Education

Memorial University of Newfoundland **St. John's, NL, Canada**

Bachelor of Engineering - Computer Engineering Class of 2027

Minor: Mathematics (Calculus and Discrete Math)

Treasurer of IEEE Student Branch

Skills

Languages: JavaScript, TypeScript, C/C++, Python, Java, C#, Dart, SQL, HTML, CSS, Bash
Frontend: ReactJS, AngularJS, Flutter, Astro, NextJS, RemixJS, Webpack, TailwindCSS, ChakraUI, Bootstrap, Redux
Backend: NodeJS, ExpressJS, FeathersJS, FastAPI, Postgraphile, Apollo GraphQL, SocketIO
Database: PostgreSQL, SQLite, MySQL, Firebase, MongoDB
Embedded: Arduino, Raspberry Pi, ESP32, FreeRTOS, ROS2
Tools: Git, GitHub Actions, Docker, Kubernetes, Helm, Tilt, OpenTelemtry, Grafana, AWS, Google Cloud, Digital Ocean

Projects

Copper Social **Jan 2024 – Mar 2024**

- Developed and maintained a monorepo for Copper, a communication platform amalgamating features from Discord and Instagram.
- Implemented front-end functionalities using RemixJS, React, and ChakraUI, enhancing user experience and interaction.

– Engineered robust back-end solutions utilizing Express.js, Prisma, and SQLite, ensuring efficient RESTful API development and data management.
– Integrated real-time messaging features leveraging SocketIO, enhancing user engagement and interactivity within the platform.