

# 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 technologies 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.

### 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, OpenTelemetry, 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.