

Whymarrh Whitby

Senior Developer

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EXPERIENCE



Senior Software Developer

1Password

Nov 2020 → Current (1 year, 2 months)

[typescript](#) [reactjs](#) [go](#) [mysql](#)

I work at 1Password, focusing on signup, on-boarding, and user education. 1Password is one of the most popular password managers, trusted by over 100,000 businesses.

Roles & responsibilities:

- Mentor new developers on testing, version control, TypeScript, and Golang
- Develop the signup flows for 1Password across the web and the client apps
 - Architect and build front-end components and features for signup
 - Architect server features for signup and data migrations (Golang and MySQL)
- Review and respond to external security audits for the web client



Senior Software Developer

MetaMask

Jan 2018 → Nov 2020 (2 years, 11 months)

[javascript](#) [typescript](#) [reactjs](#) [redux](#) [mocha.js](#) [enzyme](#) [git](#) [ethereum](#)

I worked on MetaMask, a browser extension that allows websites to interact with Ethereum APIs. In my time working on the project, MetaMask doubled in users from roughly 500k to 1M+ users across multiple browsers.

[My work on the extension is available on GitHub.](#)

Roles & responsibilities:

- Architected and built front-end features for the extension using React and Redux
- Implemented components based on designs and wireframes in Figma
- Mentored newer developers
- Helped maintain a medium-sized open source project (3.5k stars, 150+ contributors)
 - Responded to user feedback and triage issues from the community
 - Reviewed code from the community and help contributors land their patches
- Helped maintain JavaScript/TypeScript packages under the MetaMask organization (10+ packages, 12k+ dependents)



Senior Software Developer

Iceberg Finder

Dec 2017 → Jan 2020 (2 years, 2 months)

[javascript](#) [typescript](#) [reactjs](#) [redux](#) [rxjs](#) [jest](#) [express](#) [git](#)

This was a freelance role.

I helped build [Newfoundland and Labrador's Iceberg Finder website](#). The site allows users to locate icebergs and share iceberg photos.

Roles & responsibilities:

- Architected and built full-stack features, including:
 - React components based on a UI design system in Sketch
 - HTTP APIs for processing, storing, and querying geospatial data
 - API integrations with Redux and redux-observable/rxjs
- Prioritized features and designs to meet deadlines
- Mentored new developers on testing, version control, and JavaScript
- Managed server infrastructure on DigitalOcean using Terraform

Awards:

- [Gold - 2019 ICE Awards for Apps/Mobile - IcebergFinder.com](#)
- [Gold - 2019 ICE Awards for Website - IcebergFinder.com](#)
- [Silver - 2019 Marketing Awards Digital - Creative Use of Technology](#)
- [Gold - Digital Marketing at the 2018 HSMAl Adrian Awards Competition](#)
- [Platinum - Digital Campaign at the 2018 HSMAl Adrian Awards Competition](#)



Software Developer

Bluedrop Learning Networks

Dec 2016 → Jan 2018 (1 year, 2 months)

[javascript](#) [reactjs](#) [redux](#) [rxjs](#) [feathersjs](#) [postgresql](#) [git](#) [docker](#) [linux](#) [amazon-s3](#)

I worked on Bluedrop's [SkillsPass website](#) and built the first version of Bluedrop Q. SkillsPass allows companies to manage training certifications for their workers and Bluedrop Q offers companies a web- and workflow-based form editor for their employee/customer onboarding.

Roles & responsibilities:

- Built full-stack features (both front-end and back-end)
- Designed React components based on high-fi UI designs and low-fi wireframes
- Developed RESTful APIs using FeathersJS
- Helped maintain internal JavaScript packages and tooling
- Mentored new developers on testing, version control, and JavaScript



Software Developer

Amec Foster Wheeler plc

May 2016 → Dec 2016 (8 months)

[python](#) [git](#) [docker](#) [linux](#) [amazon-ec2](#) [amazon-s3](#)

I worked in Met-Ocean Services at Amec Foster Wheeler, configuring and improving the team's operational weather forecast tooling.

Roles & responsibilities:

- Configured and updated existing weather forecast tooling using Python, Docker, Ansible, and shell scripts
- Built internal command-line tools
- Configured and administered Ubuntu and Fedora Linux servers on AWS



Lead Software Developer

Eastern Edge Robotics

Jul 2015 → Jun 2016 (1 year)

[java](#) [python](#) [git](#) [gradle](#) [ansible](#) [linux](#) [raspberry-pi](#)

I was the lead software developer for the 2016 Eastern Edge Robotics team. We competed at the 2016 MATE International ROV Competition against 30 teams.

Roles & responsibilities:

- Lead a team of software developers; planned and delegated tasks
- Contributed to technical documentation for the vehicle
- Built control software for an underwater robot in Java and Kotlin

Awards:

- [1st overall at the 2016 MATE International ROV Competition](#)



Software Developer

Amec Foster Wheeler plc

Apr 2014 → Aug 2015 (1 year, 5 months)

[c#](#) [javascript](#) [dojo](#) [python](#) [powershell](#) [arcgis](#) [git](#) [windows](#) [amazon-ec2](#) [amazon-s3](#)

I helped build [an ice surveillance system used for risk management and ice forecasting](#). The system tracked icebergs in the Atlantic ocean and provided movement forecasts for use on oil rigs.

Roles & responsibilities:

- Built a web-based mapping application that displayed icebergs and iceberg forecasts
- Architected and built the data processing pipeline used to download, parse, and store geospatial data
- Automated both on-premise and virtual servers on AWS
- Assisted colleagues with learning unit testing, Git, and JavaScript

OPEN SOURCE



RxBroadcast

Jan 2016 → Current (6 years)

[java](#) [rx-java](#) [reactive-programming](#) [mutation-testing](#) [distributed-system](#) [docker](#)

RxBroadcast is a distributed event library for the JVM that grew out of control software I wrote for an underwater robotics project. The library supports UDP broadcasts and allows users to configure different ordering requirements (e.g. single-source FIFO order using Lamport timestamps or causal order). The API includes the operations needed to send and receive events both on a single machine and across multiple networked machines.

It is built using Reactive Extensions (RxJava), has multiple levels of integration tests, good unit test coverage, and 99% mutation test coverage.

RESEARCH PAPERS



Sunken History of Grand Lake

Dec 2017

[arcgis](#)

Published in *The Journal of Ocean Technology*, Vol. 12, No. 4, 2017

Lake Maps NL is a group of young professionals who share a passion for technology and exploration. The group has taken a collective interest in Grand Lake: a large lake on the island of Newfoundland with a unique history and landscape. A dam was built on this lake in the 1920s and the resulting 11 metre rise in water level drastically altered the terrain both above and below the surface. Lake Maps NL set out to create a map of this lake in an attempt to discover the original shoreline and unveil some of the history preserved below the floodwaters.