Caleb Schoepp

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Education

University of Alberta   September 2017 – Present
Computer Engineering Software Option, BSc Co-op (Class of 2022)
- Cumulative GPA 3.6 / 4.0 – First Class Standing
- Key classes: OS, Algorithms I & II, Machine Learning, Intro to Software Engineering, Embedded Systems

Experience

UnifyID – Redwood City, California   February 2020 – Present
Software Engineer Intern
- Acted as a full-time member of the Backend team. Worked to maintain and build new features for multiple **Go** services, static websites, and a **React** dashboard
- Designed and implemented a system to track user acquisition data across multiple web properties
- Helped upgrade and maintain teams **Kubernetes** cluster, **Grafana** dashboards, and **Athena** pipeline
- Simplified public API for *PushAuth* product and ensured correctness with integration testing
- Built a sample **Android** app to demonstrate *GaitAuth* technology and wrote a blog post about the process
- Working with the company part-time throughout the school year

Microsoft (Azure.com Team) – Redmond, Washington   May 2019 – August 2019
Explore Intern (SWE + PM)
- Increased awareness of website performance for a large team of developers releasing code daily, by building an extension for the team's **CI/CD** that automatically audits key performance metrics
- Researched and validated performance improvements including better caching policies and lazy loading
- Fixed UI bugs on key pages across Azure.com by utilizing knowledge of **JavaScript** and **React**

Autonomous Robotic Vehicle Project (ARVP) – University of Alberta   September 2018 – August 2019
Software Team Member
- Increased functionality for team's autonomous submarine running **ROS** framework using **Python** and **C++**

Projects

GrokJS   January 2021
- Wrote VS Code extension with team to teach **JavaScript** syntax by directly explaining the syntax inline
- Project finished in the top 6 at the HackED hackathon

qShuffle.com   December 2021
- Developed a progressive web app with **React** and the Spotify Web **API** that shuffles your Spotify queue
- Implemented a client-side **OAuth** implicit grant flow for authentication

MixtapeManager.ca   September 2020
- Built a CRUD website that automates the time-intensive process of building Spotify playlists by hand
- Developed it with **Go** and **PostgreSQL**, deployed it to **Heroku**, and it is currently serving ~40 users daily

NQQ (Programming Language)   May 2020 – August 2020
- Worked to design and implement my own bytecode interpreted programming language in **C**
- Learned how to build lexers, parsers, and runtime environments

Achievements

- Jason Lang Scholarship, 2018 – 2020
- Saint John's Legacy Foundation Scholarship, 2018 – 2020
- Certified Open Water Scuba Diver, 2018
- University of Alberta Entrance Scholarship, 2017
- Highschool Valedictorian and Governor General's Academic Medal, 2017

Technologies

JavaScript, Go, Python, Java, C, React, Android, SQL, HTML/CSS, Unix, Git, AWS, Kubernetes, CI/CD