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 3.5 / 4.0 – First Class Standing
- Selected as one of 60 participants for a high intensity course on entrepreneurship involving small teams rapidly prototyping products and pitching them to investors

Experience

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
- Helped research, prototype, and validate ideas for performance improvements such as better caching policies and lazy loading heavy assets
- Fixed user interface bugs and improved accessibility on key pages across Azure.com by utilizing knowledge of **JavaScript** and **React**
- Participated in a 'Capture the Flag' security event learning about vulnerabilities including SQL injection, cross site scripting, and password cracking by attacking a fake website

Autonomous Robotic Vehicle Project (ARVP) – University of Alberta   September 2018 - Present

Software Team Member

- Increased functionality for team's autonomous submarine on **ROS** framework using **Python** and **C++**
- Worked on key updates to diagnostics system including porting CLI tools to a GUI dashboard

Jiffy Lube – Nisku, Alberta   December 2014 – August 2018

Lube Technician

- Safely and reliably performed oil changes and other lubrication services on 20+ vehicles per day

Projects

Trail Smarts

Joined interdisciplinary team on 3-day hackathon to build a website to help match up similar hikers using ML models. Focused my efforts on the frontend visualization using **TypeScript** and **React** to help build the UI.

Sudoku Solving Visualized

Implemented Sudoku solving algorithms in **C++** utilizing a variety of data structures. Tied backend to an **Arduino** frontend for real time solving visualizations using serialized communication.

One Stop Photoshop

Collaborated with a team to develop a website to congregate *r/photoshopbattles* posts into one place with an improved viewing experience over a 24-hour hackathon using **Python**, **SQLite**, and **Flask**.

Where Should We Meet

Created a simple website using **Python** that allows a user to find the most convenient meeting spot between two addresses. Used **Google Maps API** to optimize meeting point locations and provide directions.

Achievements

- Saint John's Legacy Foundation Scholarship, 2018 - 2020
- University of Alberta Entrance Scholarship, 2017
- Kinsmen Club of Edmonton Community Service Award, 2017
- Highschool Valedictorian and Governor General's Academic Medal, 2017
- Certified Open Water Scuba Diver, 2018

Technologies

(Proficient): Python, JavaScript, C++, HTML/CSS, React, Unix, Git (Familiar): ROS, SQL, Node.js, CI/CD, Flask