

Leif Pedersen

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Skills

- ❖ **Languages:** Java, Python, C++, C, JS, TypeScript, Haskell
 - ❖ **Tools:** React Native, Raspberry Pi, Arduino,
 - ❖ **Knowledge:** Object Oriented Design, Operating Systems, Algorithms and Data Structures, Hardware Prototyping, Digital System Design, Teaching
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Experience

Tableau Software: Server Software Engineering Intern (C++)

May 2019 - August 2019, Vancouver

Improved server caching by adding an adaptive eviction policy that responds to customer utilization. Reduced memory use without a high impact on users.

Tableau Software: Mobile App Software Engineering Intern (TypeScript)

May 2018 - August 2018, Palo Alto

Developed Tableau's Biometric sign in (Face ID and Touch ID) for a next-generation mobile app redesigned in React Native. Increased data security without impacting user access time.

Tasktop Technologies: Junior Software Engineer (Java)

September 2017 - May 2018, Vancouver

Extend artifact syncing from VersionOne API to Tasktop Hub. Distributed and maintained the company's quarterly product release testing tasks in Jira.

Projects

UBC Rocket: Avionics Project Lead

May 2017 - August 2018, Vancouver

Managed an interdisciplinary team of 20 engineering students to build the electronics on the team's suborbital rockets. Mediated design meeting and coordinated system requirements.

UBC Rocket: Avionics Developer (C / Arduino)

September 2016 - July 2017, Vancouver

Designed avionics algorithms for redundant and fault resistant parachute systems. Integrated IMU and altimeter sensors with flight control using custom written libraries to improve freefall accelerometer measurements. System successfully detected apogee event on maiden flight.

UBC: iGEM Researcher (Python/ wet lab)

March 2017 - November 2017, Vancouver

Collaborated with microbiologists to develop a program for informed designed CRISPR guide sequences. The software was nominated for Best Computational Model at the International Genetically Engineered Machinery Conference

Awards

UBC: Science Scholar/Dean's Honour List

Langara: Dean's Honour Roll

Spaceport America Cup: 1st place 10,000 ft division

Education

School: UBC Degree: BSc (Honours) Computer Science GPA: 4.10 Graduation: May 2020

Interests: Swing Dance, Sailing, AeroSpace, Bioinformatics