Benjamin Austin

austinlhom@gmail.com
Victoria, BC
250-812-2808
benaustin.ca

Education

BSEng, Software Engineering at the University of Victoria ***2017 - Present***

- 4th year student, expecting graduation in 2022.

Relevant Courses

- Distributed Systems, Software Quality Engineering, Software Architecture & Design

Technical Competencies

- **Languages:** C, C++, Java, Python, Go, JavaScript, CSS, HTML, Assembly, LaTeX.
- **Tools:** Git, Docker, gRPC, Protocol Buffers, Gatsby, jQuery, Wireshark.
- **Databases:** PostgreSQL, etcd.

Work Experience

Software Developer Co-op at National Research Council Canada ***Jan - Apr 2021***

- Researched and prototyped a collection of software systems in C++ to schedule, execute, and store the data of solar observations for the ongoing ARTTA-4 project at the Dominion Radio Astrophysical Observatory (DRAO).
- Utilised a key/value database and its features to dynamically monitor a subset of observation requests, significantly reducing database traffic while simultaneously allowing for real-time observation schedule updates.
- Consolidated communications between unique types of endpoint devices by implementing JSON over HTTP communication with RESTful API's, allowing the executor to communicate with multiple types of devices via a single protocol.

Quality Assurance Analyst Co-op at ACD Systems ***Jan - Aug 2019***

- Performed a variety of quality assurance testing on a wide range of web services throughout their development lifecycle, providing confidence in product releases, updates, and maintenance.
- Tested functionality, ergonomics, and quality of components during a sitewide redesign to increase maintainability and improve consistency across locales.
- Bridged communication between marketing and development teams to improve efficiency and maintain awareness of project progress and needs.

Technical Projects

Battlesnake ***2018, 2019, 2020***

- Contributed movement logic and grid parsing as part of a team that entered in multiple Battlesnake competitions to compete with various local tech companies and other teams.

VEX Robot ***2017***

- Programmed logic for an autonomous beacon-finding robot that was built as a team using a VEX Robotics kit with phototransistors, ultrasonic sensors, and a simple circuit, enabling the robot to successfully locate, navigate to, and preform an action on a target.

References available upon request.