Bruce Blore

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Experience

Software Development Engineer Internship | *Amazon Web Services*   May 2024 - Present
- Developing a tool to sort tickets into known and new issues and convert them into a standard format used by my team, saving them time dealing with tickets
- Using technologies such as AWS Lambda and S3 to enable my application to easily stay small for now but scale up in the future

Education

University of British Columbia   September 2021 - May 2025 (Expected)
Bachelor of Science in Computer Science (GPA: 83.6%)   *Vancouver, BC*

Projects

RGB light vest | *Typescript, Express.js, Node.js, Python*   September 2021 - Present
- Developed server-side code using Python to control the lights and Typescript for the main logic, including Express.js to provide an API
- Designed an extension system to make it easy to quickly and independently add more color schemes and lighting effects either
- Wrote a companion app for my watch in Javascript, dynamically loading options from the server to allow for additional capabilities to be added in the future without updating the app's interface
- Found workarounds for technical limitations of the Android platform, permitting my phone to act as a proxy server

UBC Course Scheduler | *Python, Beautifulsoup4*   May 2022 - Present
- Used Beautifulsoup4 to scrape the UBC course list website
- Developed an interface permitting the user to specify a wide variety of constraints, such as minimum lunch break within a certain time window, and maximum class time per day
- Implemented search and constraint satisfaction algorithms to quickly generate suitable schedules

Social media website | *HTML, CSS, Javascript, Express.js, node.js, SQL, Oracledb*   September - December 2023
- Collaborated with classmates to create a social media website, with support for multiple images and authors per post, and click rate tracking for advertisements
- Heavily utilized SQL queries to Oracledb to perform most of the work with the data, greatly simplifying the backend code

Bangle.js app development | *Javascript*   March 2022 - Present
- Developed several apps for the Bangle.js open source smartwatch, including a scientific calculator, information-dense watch face, pomodoro timer, and app launcher with support for infinitely nested folders
- Designed interfaces for the apps that permit them to have a large amount of functionality on the small watch screen, while remaining easy to use
- Contributed the apps back to the upstream project, to be available for thousands of other users

Technical Skills

Languages: Python, HTML, CSS, Javascript, Java, Racket, SQL, C/C++, TypeScript, R, Bash, Matlab
Technologies: Node.js, Express.js, Oracledb, Beautifulsoup4, Scikit-learn, nw.js, Mocha, Chai, Junit, parse5, React
Tools and platforms: Linux (Ubuntu, Debian, Arch, and Fedora), Git, Vscode, Intellij, GDB, Github/Gitlab, Arduino, Raspberry Pi, AWS