

SHIRLEY BI

4th Year, Computer Science Major, Expected Graduation May 2021, GPA 3.95

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TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Ruby, Python, C++ **Testing:** JUnit, Selenium, Appium, Watir, Mocha/Chai
Web: Node.js, React, Redux, HTML, CSS, Meteor, PHP **Databases:** SQL, MongoDB
Mobile: React Native, Swift **Tools:** Git, Docker, Kubernetes, Jenkins

WORK EXPERIENCE

Software Engineer Intern | SAP | Java, Ruby, Selenium, Appium, React, Node.js, MongoDB, Swift Sep 2019 – Present

- Developing a full-stack web app for an internal learning platform by creating the front-end, making HTTP requests for course data, and refactoring the database and server to reduce coupling
 - Creating test frameworks using Ruby and Rspec-Watir, and Node.js and TestCafe to add flexibility to test plans
 - Implementing and automating web and mobile end-to-end tests using Page Object Model and various selenium frameworks; increasing code coverage by 50% and improving test speed
 - Writing unit tests in Swift to increase mobile code coverage
 - Connecting with full-time staff to create career development opportunities and workshops for 150+ interns as an intern committee lead
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PERSONAL PROJECTS

Banking on Food | React Native (3rd place – UBC Local Hack Day) Nov 2019

- Developed a mobile app to manage food bank inventory and gamify donations

Degree Navigator 2.0 | TypeScript (2nd place – cmd-f) Mar 2019

- Implemented the backend course logic for a UBC graduation tool

VanGo: Itinerary Planner | React, Redux, Meteor, MongoDB May 2019 – Aug 2019

- Created components, and managed the states and collections of itinerary, login, and registration pages for a responsive full-stack web app
- Collected and displayed event and attraction data using Yelp and Google Maps API
- Implemented user authentication and registration using Meteor Accounts API
- Designed the UI with Semantic UI, making adaptations based on user feedback from beta tests

Budget App | Java, JUnit Sep 2018 – Jan 2019

- Produced dynamic reports on user income and expenses using observer pattern
 - Implemented singleton pattern to restrict income data to a single individual
 - Created GUI using GridBagLayout in Java Swing and BarChart in Java FX
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ACADEMIC PROJECTS

Wine Inventory Manager | SQL, PHP May 2019 – Jun 2019

- Designed logical and physical data models of a wine warehouse
- Implemented an inventory management system to add, update, delete, and query inventory with multiple views

InsightUBC | TypeScript, JavaScript, Node.js, HTML, Mocha/Chai Jan 2019 – Apr 2019

- Developed a web app to query UBC building and course metadata by using asynchronous programming and a RESTful design, parsing HTML files and JSON objects, and testing with Mocha/Chai
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EDUCATION

University of British Columbia

- **BCS in Computer Science** Sep 2018 – Present
 - **BSc in Psychology, Minor in Commerce** Sep 2011 – May 2015
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INTERESTS

- Painting and Illustrations
- Entrepreneurship
- Psychology Research