

# SHIRLEY BI

Senior Year, Computer Science Major, Expected Graduation May 2021, GPA 3.95

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## EDUCATION

University of British Columbia

- **BCS in Computer Science** **Sept 2018 – Present**
  - **BSc in Psychology, Minor in Commerce** **Sept 2011 – May 2015**
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## TECHNICAL SKILLS

**Programming:** Java, TypeScript, JavaScript, C++, Python\*    **Web:** HTML, CSS, NodeJS, React, Redux, Meteor, PHP  
**Databases:** SQL, MongoDB    **Mobile:** Swift\*, Kotlin\*  
**Testing:** JUnit, Mocha/Chai, TDD, Selenium, Appium    \*currently acquiring

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## TECHNICAL PROJECTS

**VanGo: Itinerary Planner (Personal, Team of 3)** *ReactJS, Redux, Meteor, MongoDB* **May 2019 – Aug 2019**

- Set up React components, Redux states, and MongoDB collections for the itinerary, login, and registration page for an itinerary planning web app
- Implemented user login and registration using Meteor Accounts, updating the state based on user-specific data, ensuring only user-specific data was published
- Designed the UI using Semantic UI and updated the project based off user feedback

**Wine Inventory Manager (Academic, Team of 4)** *SQL, PHP* **May 2019 – June 2019**

- Designed logical and physical data models of a wine warehouse and implemented an Inventory Management System to view, add, update, delete, and query a wine inventory with multiple user views using PHP and SQL

**InsightUBC (Academic, Team of 2)** *TypeScript, JavaScript, HTML, Mocha/Chai, TDD, NodeJS* **Jan 2019 – Apr 2019**

- Developed a NodeJS 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

**Degree Navigator 2.0 (cmd-f Hackathon, 2<sup>nd</sup> place, Team of 4)** *TypeScript* **Mar 2019**

- Implemented backend logic for tracking academic progress towards graduation

**Budget App (Personal)** *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 one individual
  - Created GUI using GridBagLayout in Java Swing and BarChart in Java FX
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## WORK EXPERIENCE

**Software Engineer Intern** *SAP Canada* **Sep 2019 – Present**

- Web and mobile UI testing automation and using Appium, Selenium, Python and Java
- Android and iOS unit testing in Kotlin and Swift for Concur Travel

**Moves Consultant** *Shaw Communications* **Oct 2015 – Sep 2017**

- Created a scheduling script in VBA that scheduled and assigned responsibilities to agents that saved management several hours each month

**Research Assistant** *University of British Columbia* **Aug 2012 – Aug 2015**

- Developed and managed websites for participant recruitment, securing 300 student participants within 2 weeks