

# SHIRLEY BI

Year 4, Computer Science Major, Expected Graduation May 2021

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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**

## TECHNICAL SKILLS

**Programming:** Java, TypeScript, C++  
**Testing:** JUnit, Mocha/Chai, TDD  
**Web:** HTML, CSS, JavaScript, NodeJS, ReactJS, Redux, Meteor, PHP  
**Databases:** mySQL, MongoDB

## TECHNICAL PROJECTS

- VanGo: Itinerary Planner (Personal, Team of 3)** *ReactJS, Redux, Meteor, MongoDB* **May 2019 – Present**
- Set up the React components, Redux states, and MongoDB collections for the itinerary, login, and registration page
  - 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 applied feedback from user testing
- Message Board Website (Academic)** *HTML, CSS, JavaScript, MERN Stack* **May 2019 – July 2019**
- Created a message board in React with add, delete, and filter functions, storing persistent data on MongoDB
- Wine Inventory Manager (Personal, 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, parsing HTML files and JSON objects, using a RESTful design, 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 toward graduation
- Budget App (Personal)** *Java, JUnit* **Sep 2018 – Jan 2019**
- Loaded, entered and saved income and expense data, producing dynamic reports 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

## WORK EXPERIENCE

- Receptionist/Administrative Assistant** *QuadReal Property Group* **Oct 2017 – Sep 2018**
- Prepared reports and graphs of traffic, sales, tenant roll, accounts receivables, and income statements
  - Monitored fob access control and created a simple step-by-step manual to aid non-technical staff
- Moves Consultant** *Shaw Communications* **Oct 2015 – Sep 2017**
- Created a scheduler that scheduled and assigned responsibilities to agents and a text formatter with cross-platform compatibility in VBA that saved management several hours each month and improved call efficiency
  - Analyzed call data, created reports and graphs on team efficiency to improve queuing and call efficiency
- Research Assistant** *UBC Hospital, UBC Psychology, St. Paul's Hospital* **Aug 2012 – Aug 2015**
- Developed and managed websites for participant recruitment, securing 300 student participants within 2 weeks
  - Built and scheduled a team of research assistants, training them in data entry and collection
  - Collected and analyzed data using MS Excel and SPSS; presented findings at conferences to various audiences
  - Summarized 1000+ research papers under tight deadlines to support a publication on gut microbiomes