

SHIRLEY BI

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

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TECHNICAL SKILLS

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

WORK EXPERIENCE

Software Engineer Intern | SAP Concur

Sep 2019 – Present

- Developing a full-stack web app for an internal learning platform using a MERN stack
 - Implementing and automating web and mobile UI end-to-end tests in Selenium, Appium, Python (pytest), Java and Ruby (RSpec-Watir) using Page Object Model
 - Implementing Android and iOS features and creating unit tests in Kotlin and Swift for a travel application
 - 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

VanGo: Itinerary Planner | 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 authentication and registration using Meteor Accounts, updating the state based on user-specific data, ensuring only user-specific data was published
- Designed a responsive web app using Semantic UI and adapted the design based on user feedback

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

- Led a team of 4 to design logical and physical data models of a wine warehouse
- Implemented an inventory management system to view, add, update, delete, and query a wine inventory with multiple user views using PHP and SQL

InsightUBC | TypeScript, JavaScript, HTML, Mocha/Chai, Node.js

Jan 2019 – Apr 2019

- Developed a Node.js 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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HACKATHONS

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

Nov 2019

- Designed a mobile app using React Native to manage food bank inventory and gamify donations with badges and a scoreboard to promote donations of in-demand goods

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

Mar 2019

- Implemented the backend logic for a modern UBC academic progress tracker to improve user experience
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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

- Art & Design
- Hackathons
- Mentorship
- Personal Finance