Ethan Lee

Computer Science Major, 4th Year

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EDUCATION

University of British Columbia, Bachelor of Science   **Sept 2019 – Present**
- Grade Average: 88% (A)
- Relevant Courses: Intro Algorithm Design, Relational Databases, Intro Software Engineering, Computer Hardware and Operating Systems, Functional and Logic Programming

SKILLS

Languages: Java, C#, SQL, HTML, CSS, JavaScript, TypeScript, Swift
Tools and Frameworks: Git, ASP.NET, Node.js, Express, React, Vue.js, PostgreSQL, Firebase

EMPLOYMENT EXPERIENCE

Arista Networks, Software Engineer Intern   **Sept 2022 – Dec 2022**
- Front-End Software Engineer Intern on the Cloud Vision team using TypeScript and React

Texavie, Software Engineer Co-Op   **May 2022 – Aug 2022**
- iOS development in Swift and web development in JavaScript and Vue.js, using Firebase for backend
- Developed a calendar feature using Swift for our iOS application that allows users to see their upcoming doctors' appointments and prescribed exercise plans by integrating with our Firestore database, while leveraging knowledge of object-oriented design principles and following the MVC design pattern to ensure ease of maintainability in the future
- Contributed to the iOS app responsiveness initiative which led to full portrait orientation responsiveness across all iPads and iPhones, allowing doctors to beta test our application and facilitating our apps addition to the App Store

Change Healthcare, Software Development Engineer Co-Op   **Jan 2021 – Aug 2021**
- Modernized the user experience by submitting over 30 bug fixes to the Chromium browser support initiative while communicating design decisions and software limitations with the relevant stakeholders, leading to successful adoption of our update, and facilitating removal of Internet Explorer support in the future
- Secured our product by making necessary changes to support newer versions of multiple client-side JavaScript libraries with high security vulnerabilities
- Implemented a new DICOM image anonymization feature that fixed a long-standing pain point for a local, high priority customer
- Worked in ASP.NET, HTML, CSS, and JavaScript, applying knowledge of object-oriented design principles in C# for back-end and learning SQL to modify databases

TECHNICAL PROJECTS

Cryptocurrency Portfolio Tracker
- Built a full stack Cryptocurrency portfolio tracker using PostgreSQL, Express, React, and Node.js
- Designed a REST back-end server and relational database for data persistence
- Retrieved real-time price data from the CoinMarketCap API and used the Chart.js library to graph a user's portfolio value over time
- Leveraged GitHub Actions to automate building and deployment to an AWS EC2 instance, reducing deployment time down to ~1 minute

UBC Course Info Chrome Extension
- Developed a Chrome extension using JavaScript to dynamically add additional course info to the UBC website including average grades and average instructor ratings to help students pick courses
- Designed a simple back-end API using Python, Flask, and Selenium to scrape average instructor ratings from the RateMyProfessor website