



Shukan (Maxwell) Yang

Year 4, Honours Computer Science, Software Engineering Option

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TECHNICAL SKILLS

Programming: Java, C/C++, C#, JavaScript, TypeScript, Python, Racket, Dart, Assembly
Web: HTML, CSS / SCSS, XML, PHP, jQuery, React.js, Vue.js, Express.js, Rest API
Mobile: Android, iOS (Objective-C), React Native, Flutter
Database/testing: SQL, MySQL, MongoDB (NoSQL), JUnit, Yarn, Chai, Mocha
Tools/Environments: Git, Node.js, Postman, Docker

WORK EXPERIENCES

Mobile Software Developer, PDFTron (full time, co-op) Sept 2020 - Current

- Developed and maintained React Native and Flutter wrapper for PDFTron SDK, mainly in Java for Android, Objective-C for iOS, JavaScript/TypeScript for React Native and Dart for Flutter
- Wrote scripts for higher automation in mobile development cycle
- Contributed to and supported technical documentation for products
- Provided customer technical support by answering/solving customer questions related to mobile SDK
- Participated in technical/design reviews and group problem solving activities

Computer Science Teaching Assistant, UBC (part time) Sept 2019 - Current

- Assisted students in course materials during labs and tutorials
- Designed pre-class assignments, quizzes and exams for the courses
- Answered questions asked by students on online forum (piazza)
- Courses: CPSC 313 is a low-level course about the fundamentals of computer hardware and operating system, CPSC 210 is a software-engineering course which emphasizes on Objected-oriented programming in Java, and CPSC 121 is a preparation course to algorithm and data structures

TECHNICAL PROJECTS

ACADEMIC

Employee Directory Viewer (8-Person, project manager) Jan 2021 - Current

- Applied a combination of waterfall and agile methodology, built a serverless employee directory application for Associated Engineering
- Contained a search page with filters and sorting function, a detailed employee information screen and a dynamically generated org chart
- Implemented front-end with React.js, which is connected to the C# back-end and AWS database through S3 bucket and API gateways
- As the project manager, regularly hosted meetings, documented plans, requirements and progress in JIRA to ensure high work flow

Application Manager (3-Person)

Jan 2020 - Apr 2020

- Constructed a website for mobile application analysis with database support, which provides functions such as rating, sorting, and viewing application in user-defined order
- Realized client-side behaviors with HTML, CSS, JavaScript, server-side with PHP and MySQL for query handling

Fundamental Racket Compiler (3-Person)

Jan 2020 - Apr 2020

- Created a Racket/Scheme-based compiler that parses Racket codes and translates it into executable x86 assembly code by passing through more than 20 levels of compiling
- Explored multiple low-level aspects of Racket, from basic data structures such as vectors and pointers, to complex code structures such as recursions with local variables of varying life-cycles

PERSONAL

Online Team Communication Tool (1-person)

Dec 2020 - Current

- An online platform which allows team members to communicate and send files under configurable channels in real time
- With Node.js, front-end was built using React.js, while back-end was built with Express.js and MongoDB

Android 2D Platformer Game (1-person)

Apr 2018

- A single-player 2D platformer on Android, implemented in Android Studio using Java and Android Developer API
- Created custom art and music in Photoshop and Musescore

COMPETITIONS

IEEEExtreme Programming Competition 13.0 (3-Person)

Oct 2019

- Team (with 2 other team members) ranked 1st among all 55 teams in Canada, and top 5% globally
- Solved problems mainly about algorithm design and data structures in 24 hours

EDUCATION

Bachelor of Science

Sept 2018 – Apr 2023 (Expected)

The University of British Columbia (UBC)

Vancouver, BC

- **Major:** Honours Computer Science, Software Engineering Option
- **Current Year Standing:** 4
- **GPA:** A
- **Awards:** UBC Dean's list, UBC Science Scholar, UBC Trek's Excellence scholarship (top 5%)
- **Courses (grade, average):** Intermediate Algorithm Design and Analysis (98, 86), Computer Hardware and Operating Systems (92, 81), Software Construction (98, 74), Models of Computation (99, 75)