

Shukan (Maxwell) Yang

Year 4, Honours Computer Science, Software Engineering Option

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TECHNICAL SKILLS

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

WORK EXPERIENCES

Software Developer, SAP (full time, co-op)	Sept 2021 - Current
Research Assistant, UBC (full time, co-op) Link	May 2021 - Aug 2021
<ul style="list-style-type: none">Understood the information required by the Prusti project (a Rust verifier collaboration between UBC and ETH Zurich) and considered different designs for data representations of a Rust programReconstructed the internal representation used in Prusti to become multi-layered, which allows the encoding of Rust to Viper (language used for verification) to be more gradual and robust	
Mobile Software Developer, PDFTron (full time, co-op) Link	Sept 2020 - Apr 2021
<ul style="list-style-type: none">Developed and maintained React Native and Flutter wrapper for PDFTron SDK, in Android (Java), iOS (Objective-C), React Native (JavaScript/TypeScript) and Flutter (Dart)Wrote scripts for higher automation in mobile development cycleContributed to and supported technical documentation for productsProvided customer technical support (issues, tickets) for mobile SDKParticipated in technical/design reviews and group problem solving activities	
Computer Science Teaching Assistant, UBC (part time)	Sept 2019 - Jun 2021
<ul style="list-style-type: none">Assisted students in course materials during labs and tutorialsDesigned pre-class assignments, quizzes and exams for the coursesAnswered questions asked by students on online forum (piazza)Courses: CPSC 313 (Computer Hardware and Operating Systems), CPSC 210 (Software Construction), CPSC 121 (Models of Computation), CPSC 110 (Computation, Programs, and Programming)	

TECHNICAL PROJECTS

Employee Directory Viewer (8-person, project manager, academic) Link	Jan 2021 - Apr 2021
<ul style="list-style-type: none">Applied a combination of waterfall and agile methodology, built a serverless employee directory application for Associated EngineeringContained a search page with filters and sorting function, dynamically generated org chart, and contractor information editing pageImplemented front-end with React.js, Redux and Material-UI, which is hosted in S3 buckets and connected to the C# back-end and database through API gatewaysAs the project manager, regularly hosted meetings, documented plans, requirements and progress in JIRA to ensure high work flow	
Online Team Communication Tool (1-person, personal)	Dec 2020 - Current
<ul style="list-style-type: none">An online platform which allows team members to communicate and send files under configurable channels in real timeFront-end was built using React and Redux, while back-end was built with Express.js and MongoDB	

EDUCATION AND COMPETITIONS

Bachelor of Science	Sept 2018 – Apr 2023 (Expected)
The University of British Columbia (UBC)	Vancouver, BC
<ul style="list-style-type: none">Major: Honours Computer Science, Software Engineering OptionCurrent Year Standing: 4GPA: AAwards: UBC Dean's list, UBC Science Scholar, UBC Trek's Excellence scholarship (top 5%)	
IEEEExtreme Programming Competition 13.0 (3-person)	Oct 2019
<ul style="list-style-type: none">Team (with 2 other team members) ranked 1st among all 55 teams in Canada, and top 5% globallySolved problems mainly about algorithm design and data structures in 24 hours	