SAMMIE JIANG

Software Engineer

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Work Experience

IPS Analyst I | Fortinet | Vancouver, BC   Jan 2021 - Present
Junior IPS Analyst   June 2019 - Jan 2021
- Developing solutions for security monitoring and analysis in the ICS sector on the backend, frontend and engine
- Contributing to system design, optimization and industry research for product innovation
- Providing mentorship and code review to more junior colleagues
- Researching communication protocols, applications, and botnets for firewall detection
- Maintaining the Application Control signature database
- Providing customer support for Application Control and firewall related inquiries

Python   AngularJS   PostgreSQL   C

Junior Full Stack Developer | UBC SPPH | Vancouver, BC   May 2018 – Aug 2018
- Designed and built a mass data import functionality for the student management app supporting the bulk import of 300+ student data
- New import feature enabled 2 other programs in the department to adopt the use of the application
- Automated daily server startup/shutdown processes using bash scripts, saving over 20 man hours

ReactJS   Ruby on Rails

Software Developer | Global Relay | Vancouver, BC   May 2017 – Dec 2017
- Built front end features on the main mass message archiving web platform
- Developed a bulk keyword search upload feature, supporting 500+ keywords in production
- Refactored the entire 80+ vector icons library into font icons, improving responsiveness across all browser platforms

ExtJs   Java   Jasmine   JUnit

Technical Projects

Phishing Email Classifier & Plugin (2nd Best Implementation Project in Computer Security Course)   Oct 2018 - Dec 2018
- Classified phishing emails with 98% accuracy by training a machine learning random forest model
- Extracted 5 of the 11 total phishing characteristics from 8000+ HTML/plaintext emails

Python   JS

Digital Vinyl System | Python, Android, C, Verilog   Sept 2018 – Dec 2018
- Built a digital vinyl system using a microcontroller (DE1-SOC) and a blank time-coded vinyl
- Embedded a VGA input and designed the audio equalizer, play/pause control and music information display
- Built music playlists for our Android app

Python   Android   Verilog   C

Technical Skills

Languages	Python, C, Java, JavaScript, HTML/CSS, SQLReact Native, ReactJS, AngularJS
Applications	Git, Wireshark, IDA, OllyDbg, Fiddler, Hiew, AWS, WordPress, Atlassian Suite

Education

Graduated *May 2019*	**University of British Columbia** | BASc Computer Engineering