

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/plain text 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, SQL
Applications	React Native, ReactJS, AngularJS, Git, Wireshark, IDA, OllyDbg, Fiddler, Hiew, AWS, WordPress, Atlassian Suite

Education

Graduated May 2019	University of British Columbia BSc Computer Engineering
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