JOSHUA PENG

📞 778-960-3310   ✉ joshua_peng@sfu.ca   in linkedin.com/in/joshuapeng1999   🌐 joshpeng1999.github.io

Technical Skills

Languages: Python, Java, C/C++, HTML, CSS, JavaScript, TypeScript, Apex, Kotlin
Developer Tools: Git, Docker, Ansible, Kafka, Celery Task Queues, Elasticsearch, Android Studio, Figma
Frameworks: React, React Native, Node.js (Express), Django
Databases: MySQL, PostgreSQL, MongoDB, Redis

Work Experience

Fortinet   **July 2023 – Present**
Software Developer

- Led maintenance for two projects: an innovative antivirus system for unknown threats and a large-scale antivirus testing system, enabling internal teams to efficiently create cyber defenses for thousands of users daily
- Minimizing latency of antivirus testing software by migrating cache to Redis, aiming to cut query time by 50%
- Implemented scalable Python/Django back-end APIs and Bootstrap tables for monitoring the statistical behavior of the antivirus systems, identifying previously overlooked issues, and detecting 2000 unknown files each month
- Provided immediate QA and troubleshooting for critical enterprise and security systems, ensuring reliability and functionality for users. Efforts contributed to 100% SLA time in the detection of malicious files for several months
- Maintained the production pipeline of the systems using modern deployment tools like Docker, Ansible, and Kubernetes
- Implemented Python scripts that automated monitoring of important file scanner systems to mitigate user disruptions, potential system errors, and abnormal behavior escalation

Salesforce (Traction on Demand)   **May 2021 – December 2021**
Software Developer Intern   *(8-month term)*

- Resolved business infrastructure issues of 4 different client companies by building custom Salesforce solutions
- Implemented user-friendly SFDC Lightning components by utilizing the Lightning Web Component (LWC) front-end framework and writing robust Apex back-end controllers/triggers for handling database queries
- Delivered requirements on time for deals valued over $1M and provided consistent updates to clients through Jira

AutoMetrics Manufacturing Technologies   **September 2020 – December 2020**
Full-Stack Developer Intern   *(4-month term)*

- Developed a React-based web application enabling remote real-time monitoring of industrial welding operations, leading to a 20% improvement in production efficiency and quality for clients
- Configured back-end API endpoints in Django (Python) that performed AI-powered root cause analysis to accelerate troubleshooting welding abnormalities
- Connected WebSockets to seamlessly stream live videos and electrical data from cameras/sensors to the application

Education

Simon Fraser University   **Graduated: April 2023**
Bachelor of Science in Computer Science

- Relevant Courses: Data Structures/Algorithms Analysis, ML/AI, Distributed Systems, Database Management

Projects

Capsule Closet | *Java, Android Studio*

- Developed a mobile outfit-tracker and closet app aimed to reduce the overconsumption of clothes and textile waste

SFU Surge Website | *React, JavaScript* | *Director of Technology*

- Developed and maintained SFU Surge's website (sfusurge.com), a large technology club with 100+ members

Stormhacks | *React, TypeScript*

- Built the Stormhacks websites (archive.stormhacks.com), an annual hackathon drawing participation from 300+ participants globally