

JOSHUA PENG

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Technical Skills

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

Work Experience

Fortinet

July 2023 – Present

Software Developer & DevOps

- Led maintenance for 2 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
- Migrated Perl script in-memory cache to **Redis**, eliminating cache rebuilds that **previously** took **3** hours
- Built robust **Django (Python)** REST APIs to provide detailed statistics on antivirus systems, ensuring **100%** of newly received files for antivirus testing are always being downloaded
- Performed immediate QA and troubleshooting for critical enterprise systems by resolving issues across infrastructure components like **Kubernetes**, **Kafka**, **Elasticsearch**, **MySQL** databases, and **Linux** servers
- Refactored scripts to resolve old legacy bugs that impaired system functionality, reducing system load by **50%**
- Automated the monitoring and deployments of important file scanners using **Python** cron jobs, **Docker**, and **Ansible** 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

JamFam | *React Native, Firebase, Figma*

- Developed a mobile app designed to help emerging music artists connect and collaborate
- Led a team of 4 in a startup idea through Buildspace (YC S20) and Zerobase, growing a waitlist of **60** users

Capsule Closet | *Java, Android Studio*

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

Stormhacks | *React, TypeScript*

- Built the Stormhacks website (joshpeng1999.github.io/stormhacks), an annual hackathon drawing participation from **300+** participants globally