

# JOSHUA PENG

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## Technical Skills

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**Languages:** Python, Java, C/C++, HTML, CSS, JavaScript, TypeScript, Apex, Kotlin, Bash  
**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

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### 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
- Integrated a disaster recovery solution by dockerizing the antivirus testing system, reducing system setup time by 80%
- Implemented scalable Django (Python) back-end APIs to present clear statistics on 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
- 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

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### 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

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### 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](https://sfusurge.com)), a large technology club with 100+ members

### Stormhacks | *React, TypeScript*

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