

Professional Summary

Full Stack Engineer passionate about knowledge-sharing, mentoring peers, and staying ahead of the curve by experimenting with and implementing cutting-edge technologies.

Education

2021 **Honors BSc**, *University of Toronto*, Statistics and Computer Science

Skills

Languages Python, Bash/Unix Shell, TypeScript/JavaScript, C/C++, Java, SQL, LaTeX
Infra/DevOps Docker, Ansible, GitLab, Gerrit, Jenkins, BuildKite
Other Debian/RedHat-based systems, Git, Android Build Systems, SE Linux, CloudFlare API

Experience

Apr 2022– **Full Stack Engineer**, *TitanFile Inc*, Toronto

May 2025 Accomplishments

- Migrated from Python3.8 to Python3.11 as DRI (Directly Responsible Individual) of Infrastructure, speeding up Django back-end execution by 20%.
- Optimized GitLab CI jobs as DRI of DevOps to skip unneeded or unchanged jobs, speeding up testing pipelines by 10%.
- Implemented MS365 integration from scratch to allow enabling seamless document editing; and reduced technical debt by adopting TypeScript in the code-base and creating a template for future front-end development in TypeScript and React.
- On-boarded and mentored 3 new engineers; directly mentoring one engineer to become DRI for MS365 integration development.
- Created new React components and views as part of Admin Settings Console rewrite on the front-end, implementing 90% of views according to requirements within 3 months.
- Resolved performance bottlenecks in PDF watermarking of large files on the back-end, reducing downtime and memory usage by 10% and allowing for more responsive PDF previewing of large files on the front-end.
- Reduced memory usage and increased up-time by analyzing slow database queries causing crashes, using SQL commands on the back-end to optimize slow Django queries.
- Implemented React Router routing as part of Admin Console rewrite, simplifying browser-side navigation.
- Updated DocuSign integration to accept JSON web-hooks, increasing security by using more secure XML parser implementation and enforcing future usage of JSON web-hooks, while maintaining compatibility with older XML-based web-hooks for a seamless update.
- Ported legacy Marionette views to React in TypeScript, improving code readability, reducing technical debt and minimizing uncaught bugs.
- Leveraged React Context API on the front-end to manage and share state between components, improving the scalability and maintainability of the application.

Responsibilities

- Updated Ansible templates for services running on CentOS instances to patch security scanner vulnerabilities, helping adhere to OWASP Top 10 and maintain security compliance scores.
- Participated in code reviews, helping enhance code quality, improving maintainability and reducing bugs by encouraging usage of TypeScript over JavaScript and type hinting in Python.
- Translated Figma designs into fully responsive and interactive front-end components using React, TypeScript and SCSS, with a focus on code and asset re-usability through usage of standard icon sets such as Font Awesome.
- Wrote code and handled data with security in mind, ensuring HIPAA and GDPR compliance.
- Collaborated with other DevOps team members to migrate legacy virtual machine based systems to containerized environments using Docker.
- Created and maintained Bash shell and Python scripts to run scheduled jobs or perform back fills and administrative tasks on the backend.

2015–2020 **Android Custom ROMs**

- Deployed Jenkins/BuildKite, to automate builds on code submission in Gerrit.
- Configured Debian-based executors to perform full Android builds via trigger from Jenkins/BuildKite.
- Wrote and maintained POSIX shell and Python scripts to perform full Android builds and upload artifacts to cloud storage and distribution.
- Updated older Linux kernel driver code and implemented shims for older unsupported proprietary OEM libraries, ensuring device compatibility with new major Android releases.
- Analyzed system logs to debug builds and wrote SELinux policies to ensure devices are fully functional and secure by running trusted code, maintaining security on Android upgrades.