

Vincent Zvikaramba

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Professional Summary

Highly adaptable Full Stack Engineer with 4 years of professional experience in developing secure, high-performance applications using Python, modern JavaScript and web frameworks.

Versed in building stacks from the ground up, leveraging the reliability and flexibility of open-source software and modern containerization to maximize reliability, security, reusability high up-time in micro-service based container systems.

Experience

South-Asian Women's Rights Organization

Toronto, Canada

Systems Engineer/Software Developer, Client Management System

07/2025 – Present

- Orchestrated a comprehensive redesign of the PHP and SQL-based CMS using Django and Python3 for the back-end, complemented by React and Next.JS for routing on the front-end, enhancing scalability and maintainability.
 - Designed and implemented database schema and equivalent Django models in third-normal form based on 10 physical forms used for client intakes.
 - Held weekly sprints with a cross-functional team to track project progress and assign tasks for front-end, back-end and data import work.
 - Developed REST API with the Django Rest Framework, enabling speedy import/export of thousands of client records within 5 minutes.

TitanFile Inc

Toronto, Canada

Full Stack Engineer

04/2022– 06/2025

- Spearheaded the migration of Python from version 3.8 to 3.12 as DRI of Infrastructure, leveraging interpreter optimizations to improve back-end performance by 20%.
- Streamlined GitLab CI jobs as the DRI of DevOps, eliminating unnecessary or unchanged jobs, which sped up testing pipelines by 10%.
- Implemented MS365 integration from inception, enabling seamless document editing, while mitigating technical debt through the adoption of TypeScript in the code-base, creating a template for future front-end development in React and TypeScript.
 - Employed Celery for efficient task queuing and Redis for orchestrating thread communication, caching, and concurrency locking within the Django framework.
 - Updated and modernized file previewer, allowing seamless viewing of and navigation between PDFs, images and Microsoft Office supported document formats.
 - Translated Figma designs into fully responsive and interactive front-end components using React, TypeScript and CSS, with a focus on code and asset re-usability through usage of standard icon sets such as Font Awesome.
 - Employed Celery for efficient task queuing and Redis for orchestrating thread communication, caching, and concurrency locking within the Django framework.
 - On-boarded and mentored three new engineers, directly guiding one to become the 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.
 - Implemented React Router routing as part of front-end rewrite, simplifying browser-side navigation.
 - Leveraged React Context API on the front-end to manage and share state between components, improving the scalability and maintainability of the application.
 - Decreased front-end document load times by 200ms, optimizing slow database queries by analyzing MySQL slow query log and unit test times.
- Resolved system outages caused by watermarking of large PDF files on the back-end, reducing downtime to within 5% and decreasing memory usage during PDF processing by 10%, allowing for error-free and more responsive PDF previewing of large files on the front-end.
- Modernized 10 000 lines of ES5 JavaScript and Marionette view code to TypeScript 4.0, ES11 JavaScript and React.js, reducing clutter, improving code readability and minimizing technical debt and reducing the incidence of uncaught bugs in front-end code.

Promatec Solutions

Systems Engineer/Software Developer

- Devised highly available, micro-service based container systems by implementing web service and email solutions with AWS ECS.
- Delivered a responsive single page application in one month, leveraging React and TypeScript for the front-end and NodeJS for the back-end development.
- Engineered a secure custom email system with Linux-based open-source mail services, incorporating TLS, DKIM, DMARC, and fail2ban for enhanced security.
- Leveraged Docker to optimize deployment workflows and Gerrit Code Review to enhance team collaboration.
- Automated website and email solution DNS management through a Python script integrated with the CloudFlare API.

Pretoria, South Africa

02/2021 – 12/2021

Education

University of Toronto

Honors BSc

Statistics and Computer Science

09/2014 – 12/2020

Skills

Languages: Python, TypeScript/JavaScript, SQL, Bash/Unix Shell, Makefile

Technologies: Docker, React, Playwright, NextJS, Jest, Git, GitLab, Ansible, PostMan

Operating Systems: Ubuntu/Debian-based distributions, CentOS

Other: Agile/Scrum Methodologies