David Reti

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davidreti.net

Technical Skills & Qualifications

Languages: Python, Ruby, JavaScript, C, Java

Technologies: React, Django, Ruby on Rails, Docker, Jenkins, Linux, Git, PostgreSQL

Continuous Learning: Next.JS experience (volunteering at University of Guelph), Meta Backend Developer Certificate, XR Design & Prototyping course (University of Toronto SCS)

Previous Employer Feedback: Outstanding communication skills, Highly efficient task performance, Fast Learner, Intuitive problem solver

Education

Bachelor of Computing, Software Engineering (Honours, Co-op)

University of Guelph – Guelph ON   September 2017 – December 2022

- Led the development of a complete restaurant selection app using React Native and Flask, achieving a grade of over 90% on the full project
- Minor in Business with a focus on management and marketing

Work Experience

Software Developer Co-op

Ericsson – Mississauga, ON   January – August 2021

- Automated the build status reporting of over 50 microservices by developing a custom Jenkins shared library for use in pipelines, greatly streamlining the software integration and delivery process
- Supported and automated a software vendor list script, which could automatically scan the dependencies of deliverables and report the licensing state of each one. The integration of this script allowed for a single person to verify several thousand dependencies in 1 day
- Coordinated between teams in Canada and India to migrate an internal tool used by more than 300 developers to a new instance of the software. The new backend and integration changes allowed for closer monitoring of the software build by management

Technical Systems Analyst Co-op

RBC – Royal Bank of Canada - Toronto, ON   September – December 2019

- Created a complete backend for an internal hackathon, including a full Flask server, ability to handle thousands of transactions, automated system tests and database with sub-second backup and regeneration times in 48 hours, giving team a major competitive advantage
- Developed software in CL to automate the retrieval of reports from a DB2 database containing over 16,000 user profiles from eight IBM I servers. The program saved hours of manually gathering, sorting, and editing CSV files
- Collaborated with the HPE NonStop team to rewrite TACL programs for tracking and restarting backups, reducing the number of critical messages sent to the support team by 50%, fixing numerous bugs, increasing performance, and reducing the code size by 15%

Software Engineer in Test

Vital Images – Waterloo, ON   May – August 2019

- Automated integration tests in a highly regulated medical imaging environment, using Python, PyTest and Selenium, reducing the time taken for critical tests from 1 day of manual testing, to less than 4 hours of automated testing, freeing up developer time and increasing productivity
- Optimized the framework for manipulating web tables, reducing the time needed to scan, edit and verify tables by 95% using caching and a more efficient data structure. The improvement saved an hour of automated testing time
- Ensured compliance to QMS standards, including ISO 13485, ISO 14971 and GDPR in addition to KPIs including > 90% test coverage and < 1% tech dept. This compliance helped pass a scheduled audit in May 2019

Relevant Project Experience

Software Developer

GryphHacks – Guelph, ON   October 2022 – Present

- Developed a custom particle rendering system and contact form in Next.JS for GryphHacks, the annual hackathon taking place at the University of Guelph. The new particle system reduced the project bundle size by more than 100kb, greatly improving performance.

Developer - therest.ca

A food website focused on finding the best restaurants in Toronto   August 2022 – Present

- Developed a full blog software in Ruby on Rails, including user account and permission management, the creation and sorting of food reviews by 3 criteria, custom colour themes and a comment system.
- Learned a great deal about the existing and new systems in Rails 7, including action text and active storage for images on AWS S3, import maps, and integrations and deployment with PostgreSQL and Heroku