



Robert Krivelis

FULL STACK SOFTWARE ENGINEER

CONTACT



robert.krivelis.com



[robert-krivelis](https://www.linkedin.com/in/robert-krivelis)



[robert-krivelis](https://github.com/robert-krivelis)



rob_kriv@hotmail.com



587-718-5168



Toronto, ON

EDUCATION

Engineering, Electrical

University of Calgary 2016-2022

GPA Final Year: A- 3.74 / 4.00

SKILLS

JavaScript ★★★★★★

TypeScript ★★★★★★

Python ★★★★★★

HTML / CSS ★★★★★★

AWS ★★★★★★

SQL ★★★★★☆

EXPERIENCE

Lead Full Stack Software Developer

Royal Bank of Canada (RBC) - Toronto, ON 2024-Present

Nuxt.js/Vue.js TypeScript SQL Server Docker Jenkins

- Mentored team of 5 junior/mid-level developers, implementing code review and training guidelines, reducing time to first pull request by 7 days.
- Aggressively reduced page load times with caching, improving hot path page navigation times from 12 seconds to 2 seconds.
- Created CI/CD pipeline using Jenkins, Docker, and Kubernetes, reducing deployment time from 1 hours to 15 minutes and eliminating manual deployment errors.

Senior Full Stack Developer

Royal Bank of Canada (RBC) - Toronto, ON 2022-2024

Nuxt.js TypeScript SQL Server OpenShift

- Optimized database performance through query optimization and indexing strategies, reducing average query response time from 5s to 500ms for critical user workflows
- Led migration of key features from JavaScript to TypeScript, resulting in 60% reduction in production bugs over 12 months
- Proposed, designed, and implemented collaborative realtime features with Socket.io websockets resulting in 95% user adoption over existing processes.

Data Scientist - Reliability (Internship)

AltaLink - Calgary, AB 2020-2021

Python Scikit-learn Pandas Streamlit PowerBI PyCaret

- Designed and created data pipelines and predictive machine learning model to predict equipment failures, leading to lowest yearly failure rate in last 20 years.
- Received "[Intern of Merit](#)" recognition for outstanding performance.
- Automated monthly KPI aggregation in excel to save 4 hours of manual work per month.

PROJECTS

○ Software Team Lead, U of C (Full Stack Web) [link](#)

Vue.js AWS Lambda AWS DynamoDB AWS API Gateway AWS IoT Core

- Architected serverless AWS infrastructure with capacity for 500k+ monthly IoT events with 99.99% uptime while maintaining costs under \$10/month
- Led cross-functional team of 3 developers to deliver 100% satisfaction rate to project sponsor.
- Designed application APIs and frontend architecture to work cross-platform on android, iOS, and desktop.

○ Clinical Study App (Java) [link](#)

Java Python Hardware

- Designed and developed RFID-enabled clinical study platform, reducing data collection error rate by 50% compared to manual entry.
- Worked in a multidisciplinary team of 7 to develop, market, and create a business plan for the device.
- Designed power system for running remote hardware with a Raspberry Pi.

○ AI Quiz Creator (React) [link](#)

OpenAI React.js Next.js AWS Docker Bun

- Quickly create a test based on a topic of your choosing with endless customization options and a shareable url.
- Multiple difficulties based on desired challenge level.
- Effective prompt engineering to ensure a fair and varied test.
- Enables rapid learning with instant answer feedback.

○ Personal Website (Vue) [link](#)

HTML CSS Vue.js Figma Nuxt.js SSG Google Analytics AWS SES

Developed a beautiful website to showcase projects, resume, and blogposts.

- Optimized performance to achieve lighthouse scores of 99.
- Created custom design on Figma and implemented as code.
- Respects user's dark mode preferences and implements two themes.

○ Self Watering Plant (Vanilla JavaScript) [link](#)

C++ HTML CSS JavaScript

- Designed and developed a microprocessor enabled automated watering and sunlight system for of a household plants.
- Created a custom website to control lighting and watering remotely.
- Configured multiple sensors on a custom PCB device.
- Recorded sensor data and plotted results with Plotly.js