

Lok To (Ray) Kwan

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kwanlokto.github.io/portfolio/

Results-driven **Senior Software Developer** with a strong background in **Computer Science** and 6 years of experience in fast-paced SaaS startup environments. Proven ability to drive product success and growth by leading teams that secured contracts with **4 NHL teams** and **9 pro shops** in just 36 months.

Employment

Skatescribe

Markham, ON

Senior Software Developer & Team Lead

Oct 2023 - Present

- Led a team of developers, mechanical engineers and a designer in delivering and maintaining an automated skate sharpening and profiling system adopted by **13 locations**.
- Directed system-wide refactor from monolith to microservices architecture – from project planning to deployment – that increased sharpening efficiency by **25%**, enhanced user experience, reduced operator errors by **90%**, and improved code quality.
- Collaborated with stakeholders to define technical roadmaps, break down requirements into actionable development tasks, and align timelines and scope to balance feasibility and impact.
- Managed team operations, including hiring, onboarding, mentoring, scheduling and performance reviews to support development and ensure efficient project delivery.

Full Stack Software Developer

May 2021 – Oct 2023

- Prototyped a skate sharpening system using a CNC and vision technology, achieving **0.01mm** detection accuracy and **0.1µm** sharpening precision.
- Developed ReactJS-based web application for operators to record and track customer order history.
- Researched and implemented advanced signal processing techniques to enhance laser profiler images, which **doubled** accuracy while reducing sharpening costs by **10%** and runtime by **20%**.
- Provided 24/7 on-call support to troubleshoot errors and address bug reports in a timely manner.
- Designed and managed secure, scalable cloud infrastructure on Linode, deploying production and staging environments using Docker and NGINX to ensure high availability and performance.

Cognitive Centivizer

University of Toronto

Full Stack Software Developer

Sept 2020 – May 2021

- Established best software practices in a dynamic team environment to maintain a consistent, scalable codebase, enabling future developers to contribute with ease.

Autocase

Toronto, ON

Full Stack Software Developer

May 2019 – April 2020

- Translated research models into app that measures cost/benefit of a building in AngularJS and Python
- Migrated a large web app from AngularJS to React, ensuring seamless transition with no disruptions.
- Automated aggregation of 150+ GB of NC data to Pandas, cutting processing time from **5 days** to **8 hrs**.
- Designed and implemented comprehensive unit and integration tests using PyTest and Jest increasing test coverage from **50%** to **95%+** and significantly reducing post-deployment issues by **30%**.

Education

Computer Science Specialist (**Graduated CGPA: 3.61**)

University of Toronto (2016 - 2021)

Skills

Python, Typescript, Java, React, Angular, PostgreSQL, MySQL, Redis, Linode