

RAY KWAN

SENIOR SOFTWARE DEVELOPER

Markham, ON ■ (647) 210 3443 ■ lokto.kwan@gmail.com



OBJECTIVE

Innovative and results-driven Software Engineer with 8 years of experience in fast-paced startup environments. Adept at leading cross-functional teams to deliver high-quality engineering solutions. Seeking a challenging position to leverage expertise in development and project management.

PROFESSIONAL EXPERIENCE

Skatescribe (May 2021 - Present)

Markham, ON

Chief Technology Officer (June 2025 - present)

- Led the technical vision and R&D strategy for precise skate profiler and sharpener used by 5+ NHL teams, AHL affiliates, and 10+ pro shops across North America.
- Managed a cross-functional team of 5 engineers and designers, releasing features that increased market reach and earned recognition from multiple NHL equipment managers.

Lead Software Engineer (Oct 2023 - June 2025)

- Refactored **monolith** to **microservices** architecture by integrating the order processing system into the main interface, increasing operational efficiency by 25% and improving data accuracy by 70%
- Improved scanning repeatability by 22% and reduced processing time by 75% by redesigning smoothing and joining algorithms.

Full Stack Developer (May 2021 - Oct 2023)

- Prototyped skate profiling and sharpening system integrating LJ V7080 laser profiler with Tormach 1100MX CNC mill using **Python** backend, **React** UI, and **PostgreSQL** database.
- Invented proprietary algorithms for smoothing and joining noisy scan data, achieving $\pm 1 \mu\text{m}$ precision through signal processing and least-squares optimization—creating the technical foundation for all production machines.
- Designed and managed cloud infrastructure on Linode, deploying production and staging environments with **Docker** and **NGINX** for high availability.

EDUCATION

Bachelor of Science in Computer Science

University of Toronto

Graduation Date: May 2021

- Relevant coursework:
Data Structures, Algorithms,
Database Systems, Operating
Systems
- Honors: Dean's List

WEBSITE & SOCIALS

- kwanlokto.github.io/portfolio
- linkedin.com/in/loktokwan/

SKILLS

- Proficient in Python, Javascript, Java, SQL, and Git version control. Strong knowledge of algorithms, data structures, software design patterns, and system architecture
- Excellent problem-solving and analytical skills
- Experienced in project management and team leadership
- Strong communication and interpersonal skills

REFERENCES

Available upon request.