

## Nicholas Kim

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### EDUCATION

#### **The University of Western Ontario**

September 2022 - Current

*BSc Computer Science*

**Excepted Graduation Date: July 2027**

**Relevant Coursework:** Data Structures and Algorithms, Software Tools and System Programming, Introduction to Software Engineering, Computer Networks, Machine Learning, Software Project Management, Operating Systems, Databases

**Relevant Extra Curriculars:** Western Developer's Society Hackathon, SpurHack Waterloo Hackathon, General Motors Automotive Engineering Hackathon

### EXPERIENCE

#### **Emergent Mobility for Resilient Communities Research Lab - Faculty of Engineering**

September 2025 - Current

*Software Engineer | London, ON*

- Designed and wrote a manual for an end to end OpenXR hand tracking pipeline: created per-hand XR Hand Tracker with frames, and streams joints for each hand.
- Used API to create and track XYZ points for all 26 points on the XR Hand Gloves.
- Documenting issues, making documents for code usage, and preprocessing/cleaning data

#### **3D Western**

September 2025 - Current

*AI Pipeline/Machine Learning Developer | London, ON*

- Collaborated on an AI-driven intake pipeline that parses customer requests and auto-registers jobs to a 3D printer queue, reducing manual entry and errors while improving request-to-print turnaround.
- Built and containerized datasets & services with Docker, standardizing data prep and model/runtime environments for reproducible training/inference and easier deployment.
- Benchmarking and validating models for models that detect and flag Not Safe for Workplace Models

#### **Surviving Memory in Postwar El Salvador**

June 2025 - Sept 2025

*AI Research Assistant | London, ON*

- Data/ML-learning: Orchestrated an OCR+LLM extraction stack (Transkribus, LangChain/Ollama) to convert archival scans into normalized, queryable records, validated outputs in Google Sheets with programmatic rules.
- DH/Research-learning: Operationalized a reproducible pipeline that transformed multi-box El Salvador archives into research-ready metadata, eliminating manual transcription and standardizing descriptive fields across collections.
- Project Website: <https://www.elsalvadormemory.org/>

#### **Western Engineering AutoPilot**

November 2024 - May 2025

*Autonomous Vehicle Machine Learning Engineer | London, ON*

- Designed and implemented the *decision/planning* module for autonomous road vehicles, processing real time data from perception systems, HD maps and sensor inputs to achieve 95% accuracy
- Integrated perception models developed by Computer Vision (CV) Team into the software stack, improving system responsiveness by 10%

#### **Royal Canadian Sea Cadet Corp**

May 2020 - September 2020

*Curriculum Development Intern | London, ON*

- Engineered modular and scalable digital training materials, resulting in a 30% reduction in training delivery time through advanced instructional design methods
- Prepared and edited 20+ reports to Commanding Officers and Civilian Instructors

### SKILLS & INTEREST

**Languages:** Python; R; Java; C; HTML/CSS; UNIX/Linux; Assembly; JFLAP; C++; Excel; Power Bi; SQL

**Technical:** VS Code; IntelliJ; PyCharm; R Studio; Git; Outlook; Proficient in Office 365 AWS; Eclipse IDE, Microsoft Teams, OpenAI API, Google Drive API, Ollama, Fine-tuning and Training Models, Claude