JORDAN CHUNG

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SKILLS

- Programming Languages: Java, Python, C++, C, C#, HTML, CSS, JavaScript, R, PHP, SQL, Kotlin, Dart.
- Libraries and Tools: React, Flask, Pandas, NumPy, SkLearn, TensorFlow, Flutter, AWS, PyTorch, Excel, Selenium.
- Hardware and Electronics: VHDL, Verilog, FPGAs, Quartus II, NIOS II, and KiCAD, LTspice, Oscilloscopes.

EDUCATION

Smith Engineering, Queen's University, Kingston, ON   **Sept 2023 – Apr 2027**
Bachelor of Applied Science (B.A.Sc.) and Smith Certificate in Business
- Association For Supply Chain Management; Queen's Startup Consulting Technical Consultant; QMIND Machine Learning Engineer; Queen's Aerospace Design Team Software Engineer; Queen's Solar Design Team; Men's Varsity Rowing Team.
- Neil and Jean Lund Award; Science '56 Bursary Recipient; Ontario Scholar Recipient.

EXPERIENCE

Technical Consultant, Queen's Startup Consulting   **Mar 2025 – Present**
- Collaborated with real-world startup companies to deliver technical solutions and business recommendations involving software development, machine learning, and data analysis.
- Presented technical findings to clients through clear, professional reports and weekly stakeholder meetings.

Machine Learning Engineer, QMIND   **Sept 2024 – Apr 2025**
- Developed an AI model using YOLOv5 able to track and identify opponent robots based on specific LED colour cues.
- Applied data pre-processing techniques, such as noise reduction, data augmentation, and sharpening to improve model accuracy by 10% processing over 1000 test images.
- Collaborated with the robotics team to integrate the model into the competition framework with the Nvidia Jetpack SDK, ensuring precision and reliability under real conditions.

Software Engineer, Queen's Aerospace Design Team   **Sept 2024 – Dec 2024**
- Collaborated with interdisciplinary teams to integrate a computer vision model for drone navigation and landing.
- Trained machine learning models to analyze terrain and determine optimal landing zones for autonomous drones.
- Fine-tuned and optimized computer vision models increasing accuracy by 10% for object detection and tracking.

PROJECTS

YouTube Sponsorship Skipping App   **Mar 2025 – Present**
- Developed a cross-platform app that plays YouTube videos while automatically skipping sponsorship segments using AI-powered transcript analysis.
- Integrated a Python backend using a YouTube API to fetch video transcripts automatically without user interaction.
- Trained and deployed an NLP model to classify the transcript, enabling control through a custom player interface.

Price Estimation API   **Mar 2025 – April 2025**
- Programmed a custom backend API for a client to estimate resale prices of clothing products by web scraping live listings from popular websites such as eBay, Poshmark and Kijiji.
- Leveraged ScrapingBee and Selenium for handling dynamic content to scrape large volumes of product data, which was cleaned, filtered, and stored into a MySQL database.
- Worked directly with the client to ensure a polished final product through clear communication and consistent updates.

Home Environment Monitor   **Sept 2024 – Dec 2024**
- Designed a home environment monitor using Arduino to detect issues such as poor air quality, mold, and allergens.
- Added wireless data transfer from the Arduino to the website using a Wi-Fi connection, SQL and PHP, allowing for efficient data processing and real-time communication to the server.
- Built an interactive web platform to display and store real-time sensor data securely via cloud infrastructure.

EXTRACURRICULAR EXPERIENCE

Queen's Varsity Rowing Team, Kingston, ON   **Sept 2023 – Dec 2024**
- Effectively time managed six 5:30 am - 7:30 am practices and dedicated upwards of 20 hours a week to high-performance training while maintaining a full course load.