

ARYAN PAREKH

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EDUCATION

The University of Western Ontario

Sep 2023 – Mar 2025

M. Sc, Computer Science (Artificial Intelligence) (GPA: 4.00 / 4.00)

London, ON, Canada

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Operating Systems, Artificial Intelligence, User Experience/User Interfaces, Machine Organization and Programming

Honors and Awards: Western Graduate Research Scholarship, Graduate Fellowship

University of Mumbai

Aug 2019 – Jun 2023

B. Tech, Computer Engineering (GPA: 3.83 / 4.00)

Mumbai, MH, India

SKILLS

Languages: Python, Java, JavaScript, SQL, R, HTML, CSS, C, Bash

Technologies: Django REST Framework, React.js, Flask, Spring Boot, Bootstrap, TensorFlow, PyTorch, NumPy, Pandas, SAP CDS

Cloud & MLOps: Azure ML, Compute Canada HPC, Google Colab, CI/CD Pipelines

Tools: GitHub, Linux, Shell Scripting, GPU Computing, Alteryx, Automation Anywhere, MySQL, PostgreSQL, SQLite

Development Skills: API Development, Data Structures and Algorithms, Operating Systems, Backend Development, Full-Stack Development, Continuous Integration, Version Control (Git), Scalability, Process Automation, Code Optimization

WORK EXPERIENCE

Information Technology Intern | London Hydro

May 2025 – Aug 2025

- Developed 35+ SAP CDS Views, exceeding vendor scope (14) and cutting report runtimes from 30 mins to 300 ms, by converting legacy SQL queries and aligning mappings with business/technical teams during S/4HANA migration.
- Reduced OCM defect tickets from 256 to 0 and improved reporting/testing visibility by standardizing 50+ guides, managing 100+ JIRA tickets, and building a custom UAT Defect Form, streamlining end-user support and PMO tracking.
- Accelerated QA and billing validation by automating XML and PDF data pipelines (Python, Flask, Spring Boot), enabling bulk validation of 24+ Green Button files, automated bill fetching via SOAP APIs, and 4-way invoice consistency checks integrated into WatchDog.

Generative AI Externship | Cognizant

Jan 2025 – Mar 2025

- Developed 33+ real-world Generative AI projects by applying advanced prompt engineering and LLM fine-tuning.
- Streamlined end-to-end AI workflows using Azure ML, cutting deployment time by 40% with optimized MLOps pipelines.
- Earned the Cognizant GenAI Digital Badge by demonstrating mastery in production-scale Generative AI solutions.

Graduate Research Assistant | The University of Western Ontario

Sep 2023 – Apr 2025

- Improved real-time object detection accuracy for Advanced Driving Assistance Systems (ADAS) by researching Transformer-based models and CNNs (RT-DETR and YOLOv8), solving critical machine learning challenges.
- Trained and tested 35 custom models using Python, PyTorch, and Google Colab, leveraging Compute Canada GPUs with Linux and Shell Scripting for large-scale experimentation. Concluded that YOLOv8 outperforms RT-DETR in ADAS environments based on inference time and detection accuracy.
- Authored a 100+ page thesis and a comprehensive paper categorizing ADAS challenges into non-imaging sensor data, imaging sensor data, and communication sources, presenting innovative ML solutions for each category.

Software Engineer Intern | Kwoda

Sep 2023 – Jul 2024

- Developed a multi-company HR web platform using Python, Django, Django REST Framework, React.js, and JavaScript, enabling sales employee performance tracking and onboarding for 100+ employees across 3 companies.
- Implemented a digital resume feature backed by a SQLite database, generating 100% verified work records approved by HRs/managers, improving credibility for 15+ employees transitioning between companies.
- Engineered a QR-based authentication system integrated into digital resumes using Python and Django, ensuring tamper-proof verification via a secure backend, achieving 100% adoption and boosting trust in employee records.

Co-Founder and Full-Stack Developer | Trinite

Aug 2021 – Sep 2023

- Co-founded Trinite, a tech startup helping 5+ small-scale businesses enhance their online presence through tailored websites and digital solutions (like Search Engine Optimization), improving efficiency and expanding outreach.
- Constructed a robust e-commerce platform for our client Knickgasm using Django, React.js, Python, JavaScript, and MySQL, integrating cart, wish list, and Razorpay Payment Gateway to enable 600+ flawless customer transactions.
- Validated the platform through unit and functional testing, fixing edge cases and optimizing performance to achieve 100% reliability, enabling the client to secure 15+ celebrity collaborations and a 'Shark Tank India' pitch.