Serjan Kaur

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EDUCATION

Western University — London, ON
Bachelor of Science — Computer Science — *2023 – 2027*

EXPERIENCE

Head Intern — Oct. 2025 – Present
Achievable — EdTech Startup — *Remote*
- Built internal analytics dashboards using JavaScript, Python, and Firebase to track user engagement and product metrics.
- Implemented A/B testing infrastructure with custom event logging, improving conversion rates by **15%**.
- Developed reusable front-end components for student-facing pages using HTML/CSS/JavaScript.

Project Consultant — FuturePath — Sept. 2024 – Present
Riipen — *Remote*
- Delivered 4+ technical consulting projects focused on API integrations, automation engineering, and CRM system architecture.
- Developed workflow automations using Notion API, Airtable API, and Zapier, reducing admin workload by **50%**.
- Built Python scripts and webhook-triggered pipelines to sync data across internal systems.

Technology Lead — Jan. 2024 – Present
Pioneer Medcare — Healthcare Startup — *Toronto, ON*
- Engineered Shopify-based ecommerce platform using Liquid, JavaScript, and HTML/CSS for 200+ medical SKUs.
- Developed automation pipelines using Zapier, Apps Script, and Python to sync orders, inventory, and analytics, cutting operations time by **40%**.
- Integrated Amazon Seller Central APIs, automating product listings and increasing marketplace revenue by **3x**.
- Built internal tools for product catalog optimization and metadata generation using Python.

Vice President, Events — Sept. 2025 – Present
Western Cyber Society — *London, ON*
- Led technical execution of FAANG Day and IBM Night, organizing workshops on AI, cloud computing, and software engineering.
- Implemented automation scripts for event scheduling, registrations, and logistics using Notion API.
- Partnered with IBM and Deloitte engineers to deliver hands-on technical sessions.

PROJECTS

ClimateCode.io | Python, OpenAI API — Personal Project
- Developed GPT-powered CLI tool that analyzes Python code via AST parsing, improving runtime by **17%**.
- Implemented modular plugin architecture for extendable code quality checks.

Geospatial AI for Disaster Mitigation | TensorFlow, Flask, QGIS — Hackathon
- Trained CNN model to predict landslide risk zones; built Flask dashboard for real-time inference.
- Reduced emergency alert response time by **20%** via automated prediction pipeline.

Smiley | Flutter, Firebase, ML — Hackathon
- Developed cross-platform app that predicts mood/productivity using ML features with **82%** accuracy.
- Integrated Firebase for authentication, real-time data storage, and analytics.

Fake News Detector | NLP, Scikit-learn — Personal Project
- Built TF-IDF + Logistic Regression model achieving **91% precision / 87% recall**.
- Presented project's design and ML pipeline at Microsoft Toronto.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), C++, HTML, CSS, Liquid
Frameworks: React, Next.js, Node.js, TensorFlow, Flask, Express
Tools: Git, Firebase, AWS (Lambda, S3), Docker, Stripe API, Zapier, Google Apps Script
Databases: MySQL, MongoDB, Firestore
Other: REST APIs, CI/CD, Notion API, Airtable API, Figma, OpenAI API