

Ammar Kashif

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EDUCATION

Toronto Metropolitan University — TMU (Formerly Ryerson)

Sep. 2023 – Apr. 2027

Bachelor of Science in Computer Science (Co-op)

Toronto, ON

- Cumulative GPA: 3.81

TECHNICAL SKILLS

Languages: Python, C++, JavaScript/TypeScript, Java, SQL

Frameworks/Libraries: TensorFlow Lite, React Native, Node.js, Next.js, React, Flask, Prisma

Tools/Technologies: Git, Linux, REST APIs, OAuth 2.0, OpenAI API, PostgreSQL, Azure DevOps, Power BI, Expo

EXPERIENCE

CEO & Software Developer

Jun. 2024 – Present

MAPs Digital

Toronto, ON

- Cut project delivery time by 30% across 5+ client systems by architecting reusable Python backend services and automation workflows deployed on Unix-based runtimes.
- Reduced rework on deliverables by leading 3+ contributors with scoped task breakdowns, technical documentation standards, and Git-based code review workflows.

AI & Software Industry Consultant

Dec. 2025 – Mar. 2026

Riipen (IBM SkillsBuild & Level UP)

Remote, Canada

- Shipped a scheduling MVP supporting 10+ concurrent crew assignments by engineering full-stack services in TypeScript and Python with CSV intake parsing, data validation, and automated Excel/PDF report generation.
- Accelerated engineering design iteration by prototyping a Python-based AI workflow integrating RAG retrieval, rules-based decision logic, and REST API communications over secured HTTP endpoints.
- Kept 5+ cross-functional teams on schedule by conducting ML dataset analysis in Python (Pandas, NumPy), leading technical scoping, and authoring milestone documentation in Notion.

Co-op Project Support Analyst – SaaS

Sep. 2025 – Dec. 2025

Ontario Public Service – GovTechON

Toronto, ON

- Saved 8+ hours per week of manual cleanup by developing Python utilities (Pandas, regex-based parsing, structured logging) that processed 10K+ enterprise records per run on Linux-based runtimes.
- Enabled daily-refresh Power BI dashboards for ministry stakeholders by supporting pipelines on Azure Data Factory and Databricks and authoring operational runbooks for technical handoff.

PROJECTS

FireTracker | *React Native, Expo, TensorFlow Lite, Python, Google Maps API*

Feb. 2026 – Apr. 2026

- Achieved $\pm 1\text{--}2\text{km}$ geolocation accuracy in a mobile field application by implementing sensor fusion algorithms in Python and JavaScript that combined GPS, magnetometer, and accelerometer data with Haversine estimation and low-pass filtering.
- Enabled on-device real-time inference under constrained mobile hardware by deploying quantized TensorFlow Lite models (float16, float32, int8) and tuning runtime performance across heterogeneous device capabilities.
- Visualized multi-incident geospatial tracking across North America by integrating REST API endpoints with an interactive mobile map and live coordinate streaming.

Bumby | *Python, OpenAI API, Prompt Engineering*

Dec. 2025

- Reduced batch image-edit time by 70% by building a Python-based AI transformation pipeline with structured prompt templates and REST API integration to external model endpoints.
- Improved output consistency across 100+ test images by iterating prompt structure and implementing validation checks, input parsing logic, and error handling.

Playlist Helper | *JavaScript, Node.js, OpenAI API, Spotify Web API, OAuth 2.0*

Oct. 2025

- Generated personalized recommendation playlists across 10+ genre categories by integrating multiple REST APIs (OpenAI, Spotify Web API) over secured HTTPS endpoints in a Node.js backend.
- Secured user authentication flows by implementing the OAuth 2.0 PKCE protocol with token refresh logic, communications-layer validation, and protected route error handling.