Amir Ibrahim

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EDUCATION

Bachelor of Engineering (B.Eng.) - Computer Engineering York University - Lassonde School of Engineering

Graduated Jun 2025

- **Relevant Coursework:** Object-Oriented Programming (Java), Data Structures & Algorithms, Operating Systems, Communication Networks, Software Engineering Principles.

TECHNICAL SKILLS

- **Languages: Python**, **Java** (Object-Oriented Design), SQL, Bash, JavaScript (ES6+).
- **Infrastructure & Tools: Linux/Unix**, Docker, Git/GitHub, TCP/IP, HTTP/DNS, Distributed Systems Concepts.
- **Backend & Web:** Node.js, Express, RESTful APIs, MySQL, React.js.

TECHNICAL PROJECTS

KonnectTaps | Co-Founder & Lead Engineer
Jan 2024 – Present

- Architecting the complete backend infrastructure overhaul using **Node.js** and **MySQL** to resolve legacy stability issues and improve data integrity for 100+ active users.
- Designing a modular system architecture to eliminate technical debt, refactoring legacy code into a scalable infrastructure capable of supporting future feature growth.
- Implementing rigid data persistence layers to manage user analytics and digital profiles, ensuring reliability across distributed sessions.

MIX Registration System | High-Availability Event Platform
Jan 2025 – Feb 2025

- Engineered a high-throughput registration platform handling **400+ concurrent requests** during time-critical traffic spikes, ensuring zero downtime.
- Optimized **Node.js** backend logic to manage race conditions in database transactions, ensuring accurate participant sorting and data consistency under load.
- Collaborated on system design to interface with a distributed frontend, prioritizing response latency and user flow efficiency.

Desktop Automation Suite | Python Scripting (*Personal Projects*)

- Developed custom **Python** automation scripts to optimize local file system organization and batch PDF processing, reducing manual administrative workflow time by 40%.
- Created utility tools to parse and structure downloaded data, eliminating repetitive manual data entry tasks.

Satellite Operations Services Optimizer (SOSO) | Capstone (Canadian Space Agency)
Sep 2024 – Apr 2025

- Collaborated with **Canadian Space Agency** stakeholders to define system design specifications and API requirements for complex satellite scheduling workflows.
- Translated rigorous operational constraints into technical logic, building a visualization tool to accurately reflect satellite telemetry and scheduling conflicts.

PROFESSIONAL EXPERIENCE

Marché Adonis | Assistant Manager - Operations Mississauga, ON | Nov 2017 – Present
- Orchestrate daily operational workflows and scheduling for a 13-person team, acting as the primary point of contact for resolving real-time operational conflicts and escalations.
- Diagnose and resolve process bottlenecks in a fast-paced environment to maintain service level targets and operational continuity.

VOLUNTEER EXPERIENCE

Audio-Visual Volunteer — St. George & St. Abanoub Church · Milton, ON
Nov 2024 – Present
- Operate and troubleshoot audio and lighting systems during live services and events, building strong system-level troubleshooting skills.