

# Amir Mirzaei

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## Work Experience

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### Nokia | IT Network Developer

Sept 2024 – Present

- Architected and scaled an Enterprise **AI Agent** using **LangChain** to automate **Firewall Requests** validation for a global workforce of **80,000+** employees.
- Designed and deployed **Python** scripts and **Ansible** playbooks within **Linux** environments to automate repetitive network tasks and validate complex data flows.
- Built an **Agentic AI** solution by using **Nokia's LLM Gateway** to classify **1,000+** ISP maintenance emails per month.
- Engineered a live on production **Agentic AI** and **RAG pipeline** that autonomously classifies global ISP, Network, and Power maintenance emails with a **98%+** accuracy rate.
- Developed **Azure Logic App** to block calendar events for operations team, saving **25+ hours** of L1 engineer per month.
- Developed serverless backend solutions using **Azure Function Apps, Logic Apps, and Fast API** to optimize data persistence and support large-scale production migrations.
- Built a real-time validation **AI Agent Chatbot** for firewall rule requests that integrates deterministic logic (IPAM/Matrix) with **LLM** personas to generate structured JSON outputs.
- Developed **Power BI Dashboards, Power Automate Flow** and **Power Apps** to automate redundant network task.
- Gained exposure to service provisioning concepts and **intent-based networking workflows** through internal automation tasks.
- Designed **LLM pipelines** by using **Nokia's LLM Gateway** and using **few-shot prompting** in a modular context to avoid hallucinations.
- Presented **AI architecture** and **proof-of-concepts** at the Nokia internal **GenAI Forum** to demonstrate the ROI and scalability of autonomous network agents.
- **Mentored and onboarded** incoming co-op students by providing comprehensive walkthroughs of the team's development environment and internal tech stack.

## Technical Skills

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**Programming & Scripting:** Python, Java, Bash, JavaScript

**Networking:** TCP/IP, Routing & Subnetting, Fundamentals (OSPF, IS-IS, BGP), IP/MPLS Basics, Network Troubleshooting, Wireshark, Cisco Packet Tracer

**DevOps:** Linux, Git, Docker, Kubernetes, Microsoft Azure, MCP Servers, Ansible

**Software Testing:** PyTest, PyUnit, Junit

**Web Development:** HTML, CSS, Flask, Fast API, REST API, Postman

**AI & ML:** AI Agents, LangChain, Pandas, NumPy, Prompt Engineering, LangGraph, RAG Pipeline, Vector Embeddings

**Database Systems:** MySQL, SQL Server, Oracle, MongoDB, PostgreSQL

**Tools:** Grafana, VS Code, Eclipse IDE, Power Automate, Power Apps, Power BI

## Education

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**Algonquin College**, Advanced Diploma in Computer Programming (Honours)

Sept 2023 – Dec 2025

- **GPA:** 3.9/4.0, Dean's List
- **Related Coursework:** OOP (Java) - Database Systems – Web Programming - Design Patterns in Java - Linux OS - Network Programming - Data Structure and Algorithms - System Analysis and Design

## Certificates

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- Nokia Network Routing Specialist: NRS I (In Progress)
- Oracle Cloud Infrastructure 2025: AI Foundations Associate

## Projects

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### **Trashure – Recycling Marketplace Web Application**

- Developed a full-stack web application for Leap Green Polymers Inc. to connect businesses buying and selling recyclable plastics across Canada.
- Built secure REST APIs using python and an interactive front-end by using React JS to ensure responsive and accessible UI in all platforms.
- Implemented buyer-seller conversation chat history, subscription plan, delivering a production-ready web application that met all client requirements.
- Integrated Map API to ensure buyers find nearby products to buy, along with Payment API to establish the subscription plan and auto renewals.

## Teaching Experience

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**Teaching Assistant:** Network Programming, Computer Essentials