FUNMBI AKANDE

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EDUCATION

Honours Bachelor of Science in Computer Science (HBSc), York University — Exp 2026

- Admitted to Dean's Honour Roll at Lassonde School of Engineering — 2022, 2023, 2024

Relevant Coursework: Analysis of Algorithms, Mobile Development, Advanced OOP, Computer Architecture, Data Mining

Extracurricular Activities: Lawn Tennis, Hackathons, Food Bank Volunteer, AI & ML, Graphic Design, ToastMasters Club

TECHNICAL SKILLS

Languages	Python, Java, C, C++, JavaScript, HTML5, CSS, SQL, Swift, LaTeX
Frameworks	React, Flask, Streamlit, Jinja, Docker, JUnit, Pandas, NumPy, Matplotlib
Tools/Others	Git, Azure, NoSQL, JSON, XML, Maven, Randoop, Linux/Unix Shell, Android Studio, AutoCAD, Figma, Arduino, Microbit, Microsoft (Power BI, Excel, Power Automate), RESTful APIs, Agile Methods

PROJECTS

AI Strategic Roadmaps — Aug 2024 - Present

Python, Azure (Cosmos DB, OpenAI), Pandas, Matplotlib, Streamlit

- Developed an AI Roadmap and Playbook generator, outlining 12-quarter project pathways, business drivers, and technology enablers, reducing planning time by 80%, from weeks to just 3 days.
- Automated SharePoint data retrieval and implemented Azure Cosmos DB solution for real-time version control.
- Delivered multiple high-impact presentations to 200+ stakeholders, setting records for attendance and achieving a 4.8 rating at the Cluster Conference.

Architecture Intake Review Engine (AIRE) — May - Jun 2024

Python, Flask, Jinja, HTML, Docker, AKS, ChromaDB

- Engineered AIRE, a web platform with 7+ AI tools to automate architecture reviews, generate critical documents, assess risk, and streamline workflows, reducing intake time by 60% and supporting over 30 architects.
- Utilized Flask for the platform backend, ChromaDB and Langchain for AI-driven document analysis, Docker and AKS for containerization and scalable deployment, and Azure DevOps for CI/CD.

Virtual Library System — Jan - Mar 2024

Java, JUnit, Java Swing, Maven

- Designed a GUI-based Library application using Java Swing and CSV storage to streamline rentals, purchases, and course management for university clients, achieving a 20% improvement in operational efficiency.
- Implemented 6 software design patterns (Singleton, Factory, Command, Observer, Iterator, Builder) enhancing system scalability and efficiency, and wrote 500+ JUnit tests minimizing key system issues by 90%.

WORK EXPERIENCE

Software Developer, 2024-2025 - *Ontario Government (OPS), Enterprise Architecture Office*

- Support a team of 9 senior architects, continuously automating and optimizing business processes with AI and Microsoft tools (over 6 deployed), increasing productivity by 30%.
- Lead the PowerBI team, refining thousands of Excel data rows to create impactful, interactive dashboards.
- Collaborated on a metaverse-like system using mixed reality for interactive training of OPS employees.

k2i Cybersecurity Program Mentor, 2023 - *Lassonde School of Engineering*

- Led the implementation of a cybersecurity awareness website and provided hands-on training in web development, micro-controller programming, and circuit design for a group of 25 high-school senior students.
- Guided mentees in critical thinking, writing, and presentations, fostering their formulation of research solutions.