

HARRY ALLEN

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EDUCATION

Honours Bachelor of Computer Science, Sheridan College

Expected 2027

Specialization: Cloud Computing and Automation

Relevant Coursework: Project Management, Data Structures and Algorithms, Data Analytics, Operating Systems, Statistics, Cloud Architecture.

Artificial Intelligence and Applied Machine Learning, University of Waterloo

Nov 2025 – Feb 2026

Relevant Coursework: Machine Learning, Neural Networks, Computer Vision, Natural Language Processing, Time-Series Forecasting, Robotics, AI Development Lifecycle, AI Ethics and Governance

SKILLS

Technical Skills Python, R, SQL, Java, C/C++, C#, PHP, .NET, React, Angular, Swift

Data & ML Tools Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Apache Spark, Airflow, Hadoop,

Power BI, Tableau, Matplotlib, Jupyter Notebook, Databricks, Snowflake

Platforms & Tools AWS, GCP, Linux, PyCharm, Visual Paradigm, VBA, Figma, Microsoft Foundry

EXPERIENCE

Software Engineer Intern

May 2025 – Apr 2026

Government of Ontario

Toronto, ON

- Achieved improved system reliability by contributing to SDLC validation activities using structured debugging and workflow analysis.
- Led defect triage and requirement review cycles to improve release readiness through collaboration with developers and analysts.
- Developed and validated a custom alphanumeric identifier algorithm inspired by Luhn style checksum logic using mathematical error detection rules.

Coding Instructor iOS Development (Part-Time)

Jun 2025 – Present

Career Education Council

Guelph, ON

- Delivered structured instruction on programming fundamentals, emphasizing logical thinking, debugging techniques, and foundational data structures.
- Designed and standardized curriculum materials by creating reusable teaching modules adopted across multiple student cohorts.
- Mentored students through hands-on project development, providing code reviews and guided debugging to reinforce clean coding practices.

PROJECTS

Project Memora *Flutter, Firebase, Cloud Workflows*

Academic Project

- Built a cloud-backed reminder system supporting scheduling and notification workflows, reliably handling 500+ user interactions through backend services and asynchronous processing.

GreenPass *Backend Services, QR Verification, Blockchain Storage*

Hackathon Project

- Implemented an attendance verification flow using QR-based check-ins and identity validation, recording participation as tamper-resistant digital records to support transparent reward tracking.

AI Models for Breast Cancer Detection *Python, Scikit-learn, Statistical Modeling*

Academic Project

- Evaluated supervised learning models on breast cancer imaging data using statistical validation techniques, achieving 73.2% classification accuracy with significant results ($p = 0.0033$).