

Jordan Burton

(647) 569-3574 | Jordanburton919@gmail.com | www.linkedin.com/in/jordan-burton-2004-uwo | github.com/Jordanb1618

EDUCATION

Specialization in Computer Science | 3rd Year

Expected graduation date: Apr. 2026

Western University

London, ON

- **Courses:** Data Structures & Algorithms, Foundations of Programming, Discrete Math, Computer Organization, Organization of Computer Languages, Software Tools and Systems Programming, Applied Logic for Computing, Databases I, Operating Systems, Intro into Software Engineering,
- **Clubs:** Western AI, Computer Science Undergraduate Society, Western Cyber Society, Pangea

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, C++, R, HTML/CSS, SQL, Assembly, Scheme

Frameworks: React, React Native, Node.js, Express.js, Pandas, PyTorch

PROJECTS

Real-Time Anomaly Detection for Stock Market | *Python, Quix, Docker, Redpanda, FTP*

January 2025

- Built a **real-time data pipeline** to detect anomalies in stock market data using **Quix Streams** and **Redpanda**. Designed a stock market data producer to fetch and stream live data via **FTP**, processed it in real-time, and deployed an **Isolation Forest model** to identify irregularities in stock price trends.

AI-Powered Medical Diagnosis Assistant | *Python, FastAPI, PostgreSQL, OpenAI API*

March 2025

- Built a **RESTful API** using **FastAPI** to process user symptoms, predict medical conditions with AI, and store diagnosis history in **PostgreSQL**, **ensuring secure access with JWT** authentication and encrypted user data.
- Integrated **OpenAI's GPT-4-turbo** for natural language symptom analysis, **improving prediction accuracy** with confidence scoring and enabling a more user-friendly diagnostic experience.

Full Stack Fitness Tracking App | *React Native, AWS, GraphQL, Python/Node.js*

November 2024

- Developed a **cross-platform** fitness tracking app with dynamic workout logging, a Pokémon-themed achievement system using **PokéAPI**, and **GraphQL data modeling** for user statistics.

Efficient RAM Optimizer | *C++, Linux, LZ4*

February 2025 – Present

- Designed and implemented a **memory optimization** tool to compress inactive memory pages using LZ4, reducing RAM usage
- Leveraged **Linux** system calls for real-time memory tracking and implemented a background daemon to dynamically manage memory allocation

RELEVANT EXPERIENCE

Software Engineer

Sept 2024 – Present

Project Regen | Western Cyber Society | LINK

London, ON

- Built modular **MATLAB/Simulink** framework for hybrid vehicle systems, enabling 8 engineers to collaborate concurrently and **reducing integration delays by 30%** compared to previous monolithic architecture.
- Engineered and implemented **control algorithms** for energy management, improving simulated **efficiency by 25%** through optimized transitions, regenerative braking, and power-split logic.

AI Developer/Trainer

Dec 2024 – Present

Outlier

Remote (Contract)

- Developed **advanced training protocols** to optimize **large language models (LLMs)**, achieving notable improvements in **response accuracy** and programming evaluations.

Undergraduate Assistant

Jan 2025 – Present

Western University

London, ON

- Managed lab operations by maintaining controlled growing environments, operating plastic recycling equipment for 3D printing, and **structuring data logs** to support sustainability research and experimental efficiency.

EXTRACURRICULAR / ACTIVITIES

Active member of **Western AI, Computer Science Undergraduate Society, Western Cyber Society, and Pangea**, frequently contributing to tech workshops, hackathons, and community initiatives.

Member of the **National Society of Black Engineers (NSBE)** and **ColorStack**, engaging in mentorship programs and professional development opportunities.