Jordan Burton

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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.

Music Mood Recommendation System | *Python, LibROSA, TensorFlow, Pandas* November 2024

- Developed an **ML pipeline** that achieved 82.9% accuracy in mood classification and 3.2× faster inference by optimizing a **DNN model**, reducing memory footprint by 47% and deploying an **end-to-end solution** with automated feature caching.

Full Stack Fitness Tracking App | *React Native, Python/Node.js, AWS* November 2024

- Developed a cross-platform **mobile app** for tracking fitness progress, leveraging **AWS services** for authentication, storage, and analytics.

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.

Open Source

Pytest | *Python, Pytest, CI/CD, Git* Ongoing

- Implemented **terminal tab progress** reporting and **improved** approximate equality handling in **pytest**, enhancing test reporting and assertion consistency.

Extracurricular / Activites

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.