

Jordan Roberts

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EDUCATION

Western University

Expected Graduation: May 2029

Bachelor of Engineering, Minor in Physics

- **Relevant Coursework:** OOP(Java), Calculus I & II, Linear Algebra I, Physics I & II, Chemical Energetics

PROJECTS

MyHealthPal | Doctor App | Patient App | Tribe Network Hackathon — Winner

React Native, Expo, Next.js, FastAPI, OpenAI, MongoDB

- Implemented symptom-check and document-upload flows in React Native and Expo, wiring screens to a FastAPI backend and OpenAI models to generate plain-language outputs for patients.
- Built reusable layout and input components in React Native and NativeWind so new onboarding and check-in screens could be assembled quickly with consistent styling.
- Helped design and test API contracts between the Next.js frontend and FastAPI backend, checking that data shapes for symptoms, documents, and responses stayed consistent end-to-end.

Hospital Asset Tracking System | Western University

Jan. 2025 – Present

Systems Design, CAD, Material Selection, Prototyping

- Modeled removable RFID tag mounts in Onshape, iterating geometry and clearances so tags could fit on existing hospital equipment without blocking handles or interfaces.
- Selected candidate materials and mounting approaches based on disinfectant compatibility and attachment strength, then updated CAD to reflect those decisions.
- Built and tested 3D-printed enclosure and mounting prototypes on sample equipment to evaluate install time, stability, and ability to remove the system without damaging assets.

WORK EXPERIENCE

Film.Ca Cinemas

Feb. 2025 – Present

Associate — Customer Service, Teamwork

Oakville, ON

- Improve customer throughput during peak periods by streamlining order handling and POS execution, reducing average transaction time by an estimated ~15%.
- Maintain clean and compliant service areas by following health, safety, and operational procedures while supporting consistent service during high-volume shifts.

McMaster University

Mar. 2025 – Jun. 2025

High School Tutor (STEM) — Mentoring, STEM Instruction, Java

Hamilton, ON

- Improved student performance by an average of ~5% through structured STEM workshops, targeted practice plans, and individualized support.
- Accelerated concept mastery by breaking down technical topics into repeatable steps and providing real-time 1:1 feedback, improving student confidence and retention.

LEADERSHIP EXPERIENCE

FIRST Robotics (Build & Coding) — Java, Troubleshooting, Soldering

Dec. 2023 – Jun. 2024

FIRST Robotics Team

Milton, ON

- Troubleshot wiring, sensors, and control issues on the robot and used basic electrical checks to stabilize performance before matches.
- Tested Java code changes on the robot field-control system, identified failure points, and supported debugging through repeatable regression runs.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, HTML/CSS

Libraries & Frameworks: React.js, React Native, Next.js, FastAPI, Tailwind CSS, NativeWind, NumPy, pandas

Developer Tools: MongoDB, RESTful APIs, OpenAI API, LangChain, MATLAB, AutoCAD, Revit, PrusaSlicer