JOSH MUSZKA

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EDUCATION

B.Sc. Honours Specialization in Computer Science   September 2022 - Present
University of Western Ontario   *GPA: 3.9/4.0*
- **Courses:** Data Structures & Algorithms, Databases, Machine Learning, AI, Operating Systems
- **Awards:** Dean's Honour List, Bennie and Shirley Bradshaw Award in Science, Scholarship of Excellence

TECHNICAL SKILLS

Languages: Java, Python, JavaScript/TypeScript, C#, SQL, C/C++, HTML/CSS, PHP, Kotlin, R

Libraries & Frameworks: Django, Node.js, React, Next.js, ASP.NET, pandas, NumPy, Polars, Scikit-learn

DevOps & Tools: Git, Linux, MySQL, PostgreSQL, MongoDB, Apache, AWS, Docker

WORK EXPERIENCE

Software Engineering Research Intern   May 2025 - Present
Canadian Severe Storms Lab   *London, ON*
- Led development of the Northern Mesonet Project, a mesoscale network for severe weather forecasting.
- Built and maintained scalable infrastructure to collect, manage, and present high-frequency environmental data from remote stations across North America.
- Developed full-stack applications using C#, ASP.NET, React, and Remix, and built data pipelines with InfluxDB and PostgreSQL.

Web Developer   July 2023 - Present
Gruv Media   *London, ON*
- Develop websites and full-stack applications using Python, Django, PHP, Wagtail, WordPress, and React.
- Performed maintenance and upgrades on Django e-commerce sites, enhancing security and performance.
- Integrated Stripe payment API for secure and efficient payment processing for client e-commerce platforms.
- Collaborate with clients and team members to understand and deliver on precise project specifications.

Retail Associate   August 2023 - May 2025
Delaware Variety & LCBO Outlet   *Delaware, ON*
- Maintained regulatory compliance while overseeing the repsonsible of alcohol, tobacco, and lottery tickets.
- Delivered friendly, solution-focused customer service and supported inventory and efficient store operations.

PROJECTS

EtymoMap | *OpenAI, Express.js, React, Three.js, MySQL, Tailwind*   October 2024
- Web application to list and map the etymological origins of any English word, including language families, ancestor words and cognates, historical context, and other linguistic information.

3DWestern App | *React, Express.js, MongoDB, Tailwind*   January 2025 - Present
- Leading development of a web application for 3DWestern to streamline 3D printing order intake, including user accounts, file submissions, and payments.
- Contributing to system architecture, database design, and user interface planning in a collaborative, team-based environment, utilizing Stripe for secure and efficient payment processing.

RetroPi | *Node.js, Electron*   June 2023
- Created desktop application with JavaScript that allows users to play retro Nintendo games.
- Python modules created to handle emulators and local storage; software deployed on an OrangePi 5.

DataQuest 2024 Hackathon | *pandas, NumPy, Scikit-Learn*   April 2024
- Designed machine learning model in a team-based case competition to train on 30,000 tuples and predict credit card fraud with 94% accuracy.