

ROD ISAAC NATHAN UY

26 Barons Avenue South | Hamilton, ON | L8K 2X9 | rodisaacnathanuy@gmail.com | (289) 788-6553

HIGHLIGHT OF SKILLS AND QUALIFICATIONS:

- Proficient in Python, C#, JavaScript, TypeScript, HTML, CSS, SQL.
- Efficient in using frameworks such as Django, .NET, Vue.js and react library.
- Experienced with CI/CD pipelines and DevOps practices using GitLab and GitHub.
- Experienced in scaled agile development and proficient in AWS cloud services.

EDUCATION:

McMaster University, Hamilton, ON

Level 5 Software Engineering and Management CO-OP, 2019 - 2025

- **The McMaster's President Award** (for achieving 95% or higher in grade 12)
- **Dean's Honour List** (with a cumulative GPA of 11.4)
- **Golden Key International Honour Society** (Granted membership for being within the top 15% of the entire program)

WORK EXPERIENCE:

2023-2024

Software Developer Intern at NAVBLUE, an Airbus Company

- Researched and implemented database optimizations, resulting in a 90% reduction in query execution time and resolving AWS Lambda timeouts.
- Researched and developed a proof of concept for restructuring a product's architecture, enhancing testability, reducing service coupling, and aligning with microservices principles.
- Contributed to transitioning a product from a shared database to a multitenancy architecture, improving data segregation and security.
- Developed a pipeline to monitor AWS resource usage and create real-time dashboards with usage trends to track resource utilization patterns and identify cost-saving opportunities and optimize resource allocation.

2021-2022,
2024-2025

Teaching Assistant for Integrated Cornerstone Design Projects at McMaster University

- Effectively collaborated with instructors to refine teaching methods and course content to foster better student learning and engagement.
- Fostered a dynamic learning environment by asking targeted questions that promoted critical thinking and helped students improve their problem-solving abilities and understanding programming principles.
- Provided constructive feedback on course deliverables by using effective communication to help students develop best practices in coding and design.

PROJECTS:

- **Battery Algorithm Test Platform** (State of Charge estimation algorithm testing tool)
 - **Technologies:** AWS, Django, Python, Docker
- **The Math Whiz** (single player math game)
 - **Technologies:** Unity, C#
- **Earnings Organizer** (program used to organize income and taxes, perform searches, and summarize entries)
 - **Technologies:** Python, Django
- **Audited CS50's Introduction to Web Development**

REFERENCES ARE AVAILABLE UPON REQUEST