

Jaden Mathias

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EDUCATION

McMaster University

Hamilton, ON

Bachelor of Applied Science - BASc Computer Science, Honours Co-op

Sept 2020 – May 2025

- GPA : 3.67/4
- Coursework: Machine Learning, Linear Optimization, Algorithms and Complexity, Data Structures, Automata and Computability, Concurrent Systems, Advanced Databases, Computer Architecture, Operating Systems, Principles of Programming Languages, Computer Networks and Security, Syntax-Based tools and Compilers

EXPERIENCE

Royal Bank of Canada

Toronto, ON

Automation Analyst Co-op (React, TypeScript, Express, MongoDB, NodeJS, SQL, T24)

May 2024 - August 2024

- Launched a web application using the MERN stack and a RESTful API to automate testing processes and facilitate efficient test data retrieval for up to 5 QA/QE teams.
- Integrated access to T24 Temenos DB and optimized database connections to accelerate querying performance on XML BLOBS.
- Increased team productivity by 30% through developing a tool that streamlined automated testing and enabled rapid access to test data.

Advanced Micro devices

Markham, ON

Software Developer Co-op (C, C++, Jenkins, Python, PostgreSQL, Express, JavaScript)

May 2023 - May 2024

- Developed and optimized power management modules in the AMD driver, significantly enhancing power efficiency and system stability having debugged 13 software defect tickets.
- Designed and integrated CI/CD pipelines for automated validation of power-based features, implementing dynamic testing procedures that reduced test cycle bug reports by 12%.
- Engineered a tool for system engineers to identify performance drops in driver Sleep studies, which helped eliminate 25ms of startup-time
- Incorporated features to support AI initiatives for the bring-up phase of 2 next-generation Ryzen products

McMaster University

Hamilton, ON

Teaching Assistant (Java, Python)

COMPSCI-2XC3 - Algorithms and Software Design

January 2023 - April 2023

- Led lab sessions for the course, mentoring and guiding 25 students to enhance their understanding of key algorithms and problem-solving skills via Python.

COMPSCI 2ME3 - Introduction to Software Development

September 2022 - December 2022

- Directed interactive tutorials and assessed assignments, mentoring 30 students in Java Object-Oriented Programming and contributing to their academic success.

Start Coding Club

Hamilton, ON

Co-Vice President of Events

April 2022 - April 2023

- Operated and executed club events for the McMaster Starting Coding club.
- Surveyed the club's interests to provide enjoyable experiences for up to 300 club members.

Amima

Hamilton, ON

Lead Front-end Developer Intern (Flutter, Dart, Git)

June 2022 - September 2022

- Engineered the front-end for a mobile app from the ground up.
- Aligned a team of 3 to develop a minimal and responsive UI that supports multiple devices.
- Accelerated app performance by 20% by mentoring my team to follow best practices for Flutter Development.

PROJECTS

Valorant Soundboard | *Java, Android Studio, Gradle, Google Admob, Git*

- Collaborated on building an entertainment-based app called Valorant Soundboard.
- Integrated responsive design styles and pages for the app resulting in increased compatibility for bigger screens.
- Improved monthly installs by 10% within 8 weeks from initial launch.

3D Pong Game | *C#, Unity Engine, Git*

- Incorporated a Retro neon theme into the design
- Scripted the ball mechanics to support the 3D movement concerning rotational physics and impact mechanics
- Boosted mobile performance by up to 15 frames per second, by reconstructing game mechanics.

Discord Math Bot | *Python, Git*

- Designed the interpreter, lexer, and tokenizer that allows the bot to recognize algebraic expressions and perform derivatives.
- Added support for 20 mathematical expression tokens for top-down parsing by the bot.

Findr: Job Hunting made simple | *Dart, Flutter*

- Initiated the 'Findr' app as a solution for a 36 hours Hackathon challenge
- Assisted in the Front-end by designing an elegant and responsive login UI

TECHNICAL SKILLS

Languages: Python, C, C++, C#, Java, JavaScript, TypeScript, HTML/CSS, Dart, Haskell, Elm, GoLang.

Frameworks: React, Node.js, Express, Material-UI

Developer Tools: Git, Docker, VS Code, Visual Studio, IntelliJ, Confluence, Jira