

GABRIELLA GERGES

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EDUCATION

Western University

Candidate for Masters of Engineering Science, Software Engineering (MEsc.) 2025
Bachelor of Engineering Science, Software Engineering with Distinction (BESc.) 2023

- Ontario Graduate Scholarship (OGS) (2023)
- Dean's Honor List (2021, 2022, 2023)
- Western Scholarship of Excellence (2019)

EXPERIENCE

Teaching Assistant, Software Design

Winter 2024

Western University, Department of Electrical Engineering

London, ON, Canada

- Efficiently graded and provided constructive feedback on assignments focusing on UML diagrams, JavaFX, and software design principles within tight deadlines of 2-3 days.
- Facilitated in-person lab sessions, offering guidance and support to students in understanding course material and applying practical skills in software development.

Teaching Assistant, Web Technologies

Fall 2023

Western University, Department of Electrical Engineering

London, ON, Canada

- Facilitated labs on full-stack web development and AWS deployment, aiding students in application creation and cloud hosting.
- Managed a Discord server for student engagement and support, streamlining communication and collaborative learning.

HyperPad

Summer '21, '22, '23

Software Engineer, Full Stack Developer

London, ON, Canada

- In Summer 2022, performed migrations, transactions, and used GraphQL with Ruby on Rails to contribute to the backend of a large-scale project. Debugged and implemented features for a bot using Playwright for creating grants for charities. Created and implemented tests using Cypress.js and Cucumber pre-processor.
- In Summer 2021, contributed to building features for consulting projects using React.js, JavaScript, HTML, CSS, receiving positive reviews each sprint. Developed and debugged backend features using Firebase and the Next.js Framework. Developed Detox e2e tests to verify app features and built cross-device groups and audio sync features for app users.

PROJECTS

Research Project: *Using Supervised Machine Learning in an SDN Edge-Controlled IoT Network for Anomaly Detection and Mitigation* 2023

CS 9636 Network Security

- Authored the introduction and conducted comprehensive background research, synthesizing key concepts and methodologies relevant to machine learning and network security within SDN edge-controlled IoT frameworks.
- Led a team of five members, effectively orchestrating project efforts, delegating tasks, and ensuring cohesion and alignment with project objectives.
- Developed and designed a detailed PowerPoint presentation to communicate research findings and methodologies clearly and effectively.
- Conducted thorough quality assurance reviews on all contributions from team members to maintain high standards of accuracy and relevance in the research deliverables.

Hive

2022

SheHacks VI

- Created a client-side application that organizes GitHub repositories created by women to address the underrepresentation of women in the software industry.

- Integrated the GitHub API with Firebase Admin using Axios to provide client-side login functionality and used React Cookies to store user information.

Val-T

2021

Database Management Systems, Final Project

- Led a group of university students by delegating responsibilities, establishing expectations and tracking progress to successfully manage the project which resulted in a fully functional and usable web application.
- Developed a relational database for a Valorant tournament system that stored data such as tournaments, matches, players, non-players and displayed the information to users from the back-end through Node.js and MySQL.
- Designed the user interface using Figma and successfully implemented the entire front-end through React.js which resulted in the final product being interactive, user-friendly and functional.

Programming Languages (Fluency): JavaScript, Java, HTML, CSS, REACT.js, Git, mySQL, SQL, Node.js

Programming Languages (Exposure): C++, Python, Firebase, Unity, Android Studio, Unix, Figma, and Next.js, Axios, Cypress E2E, Ruby on Rails, GraphQL

Skills: agile methodologies, extensive API experience, developing threaded and multi-threaded server/client-side code, creating/implementing test cases

Accomplishments: SheHacks V Winner 2021 (Wolfram Alpha Award), TamuHacks Winner 2021 (Airlines Challenge)