

Lucas Hartman

Software Engineer

the.hartmans2021@gmail.com | 519-466-0801 | [hartmans.ai](https://www.hartmans.ai) | [linkedin.com/lucashartman2021](https://www.linkedin.com/lucashartman2021) | github.com/LucasHartmanWestern

Education

BESc in Software Engineering | University of Western Ontario

cGPA: 4.00 / 4.00

Accomplishments: Deans Honor List 2021-2023, Deans Award 2023, 1st Place Winner of 3MT 2023 Western Engineering Competition, 3rd Place Winner of the Research Poster 2023 Western Engineering Competition

London, ON, Canada

2020 – 2024

Work Experience

Undergraduate Researcher | Western University

- Researched using reinforcement learning for charge scheduling and vehicle routing problems
- Submitted a research paper to ICMLA as the first author in the same summer my research began
- Built a simulation environment in *Python* to mimic real-world routing and traffic as well as a DQL algorithm using *PyTorch* and *Numpy* to control the agents
- My research won 1st place for the 3-Minute Thesis (3MT) competition and 3rd place for the Research Poster competition within the Engineering Faculty at The University of Western Ontario

London, ON, Canada

May 2023 – Aug 2023

Web Developer | Optimy.ai

- Updated and maintained software used to handle onboarding, schedule management, FAQ, and more
- Developed web app using *TypeScript*, *HTML*, and *SCSS* in the *Angular* framework and used *Git* with *AWS* to handle version control and hosting

Toronto, ON, Canada

May 2022 – Jun 2023

QA Automation Specialist | Optimy.ai

- Automated the regression testing to decrease the time spent testing and number of escape bugs
- Created testing bot with *Selenium* and *Browserstack* in *C#* which would access the app on different browsers and viewports and automatically test features of the app

Toronto, ON, Canada

May 2021 – May 2022

Field Support Technician | Kognitive Sales Solutions

- Designed and created automated reports in *Excel* and *PowerBI* to aid the management team evaluating performance metrics and ensuring compliance
- Automated report refreshes by integrating with *SQL* server and implemented automated mailing systems using mail merges with *Outlook*

Toronto, ON, Canada

Oct 2018 – May 2021

Projects

Bible-AI  | Python, PyTorch, Numpy

- Natural language processor trained using the NIV Bible in Python
- Users enter text and have the model complete sentences using the context and dialect found within the Bible

Music Mania  | Angular, TypeScript, SCSS, HTML, AWS, SQL

- Music streaming service used to organize, review and listen to music
- Users can create playlists and review other users' playlists as well as review individual songs, artists, and albums, which they can find using a soft search technique

Light Souls  | Unity, C#, C++

- Third person action RPG game made in Unity with a C++ backend server to handle multiplayer
- Contains 4 unique environments, 2 bosses, 3 enemy varieties, ranged and melee combat, special abilities, inventory management, 3 unique playable characters, and much more

Technical Skills

Languages: TypeScript/JavaScript, Python, SQL, Java, C++, C#, C, ARM Assembly, HTML, SCSS/CSS, Swift

Skills: PyTorch, Numpy, Pandas, AWS, GCP, Git, Angular, React, Node.js, Express.js, Angular, Unity, MySQL, Office 365 suite, MATLAB, Figma, Cplex, Selenium, BrowserStack

Leadership Experience

VP of Technology | Western Dev Society

- Managed the technological output of one of the largest computer science clubs at Western University
- Lead small team of the top developers within the club to update and maintain existing club projects
- Design and coordinate events to teach new and exciting technologies to students

London, ON, Canada

Jun 2023 – Present

Senior Director of Projects | Western AI

- Managed multiple teams ensuring AI-based projects are completed on schedule
- Leveraged my technical knowledge in AI to provide hands-on guidance and problem-solving strategies to help navigate the complexities and challenges of the projects

London, ON, Canada

July 2023 – Present

Technical Lead | Western Dev Society

- Advised development teams within the club on creating web applications
- Designed and lead technical workshops for students at Western University

London, ON, Canada

Sept 2022 – Jun 2023