

Gabriel Hernandez

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EDUCATION

Computer Science – Bachelor of Science | Western University

Sept 2021 – Present

Relevant Coursework: Data Structures and Algorithms, Computer Organization and Architecture, Introduction to software engineering, Networks

PROJECTS

Checkers | Software Engineer

Sept 2023 – Dec 2023

- Built spellchecker desktop app increasing proficiency in literary writing to users, detecting spelling errors for up to 95%.
- Developed application software in Java and JavaFX using OOP for creating functionalities and controllers, prioritizing the ease of maintenance and understanding of the program.
- Designed using Figma to Enhance UX/UI to better understand frontend layouts saving time and costs.
- Used Junit testing framework assisting in integrations by reducing errors and ensuring quality and reliability of the software.
- Collaborated using confluence for documentation and Bitbucket code hosting repository. Managed software with Kanban in Jira, leading team to increase productivity and organization.

PubTalk | Full Stack Developer

Sept 2023 – Present

- Developed MERN stack-based article platform used for university students to publish articles and essays, aimed to help students gain an audience by sharing their collection of work.
- Implemented database with mongoDB to store all articles in an organized manner. Integrated a RESTful API in JavaScript to link the frontend to each article, enabling a fast display of articles to prioritize user experience.
- Designed UX/UI with react for reusable routing components, easing navigation management of large-scale webpages.
- Integrated NodeJS and express for fast development with middleware and routing functions, allowing quick article requests.
- Utilized Postman for API testing, saving time and cost by ensuring high-quality error testing to minimize bugs.

Alarm Robot | Embedded Systems Engineer

Aug 2023 – Present

- Building innovative self-moving alarm clock robot with collision detection. Users set alarm via phone to wake up.
- In development for frontend and backend of the mobile app using react and Flask.
- designing with premade robot kit, integrated with Raspberry Pi 4 in python, using pyTorch to set an AI model for collision.

EXTRA CURRICULAR

McMaster MacHacks 3 | Best AI environmental Hack

Feb 2023

- Developed web app SnapCycle allows users to scan various objects and learn how to properly dispose them.
- Integrated machine learning detection model using Pytorch that receives the user inputs with 92% accuracy.
- Designed website in React to implement a camera that uses Flask API sending data to the AI model and receive back information on the detected object.

Western Developers Society Overhaul Hackathon | 2nd Place Winners

Dec 2023

- Simulated real life work environment, tasked to debug and implement functionalities for CEO and stakeholders in 48 hours.
- Created accessible tools such as text to speech, speech to text, and dictation functionalities, aiding those with impairments.
- Developed website using JavaScript, html, CSS, NodeJS, ExpressJS, MySQL, and google cloud APIs.

WORK EXPERIENCE

Produce Associate | Walmart

July 2019 – Aug 2021

- Received and stocked produce in an organized manner, providing teamwork in department boosting efficiency.
- Provided customer service to ensure customer satisfaction and shopping experience, increasing sales target by 5%.

Produce Associate | Marilus Market

May 2022 – Aug 2022

- Provide great customer service by ensuring the store shelves are stocked and by responding to customer needs.
- Maintain and stock product displays and shelves that meet company standards.

Associate | Pat's Party Rentals

June 2023 – Aug 2023

- Shipment inventory and streamlined delivery processes to ensure accuracy and efficiency.
- Coordinated inventory, loading items onto trucks for timely and organized deliveries, increasing productivity by 15% .

SKILLS

- Java, Python, C, C++, JavaScript, HTML, CSS, NodeJS, ExpressJS, MongoDB, React, MySQL, Git