

Jarrold Hasnain

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• Website: jarrod-hasnain.netlify.app

Skills & Interests

Technical: Java, JavaScript, C, C#, C++, Python, Typescript, PHP, .NET, Cryptography, MS SQL, MySQL, MongoDB, Quartus Prime, Eagle, Arduino, ARM Assembly, libNDS, Unity, libGDX, React, HTML, CSS, OOP, jQuery, EJS, PLC, Unreal Engine, QA, Cisco Networks

Language: Professionally written and spoken English and French

Operating Systems: Windows 7/8/10/11, MacOS, Linux

Software Skills: Docker, Jira, Github, CI/CD, SDLC, Full-Stack development/deployment, GCP, AWS, Microsoft Office, UML Diagrams, Lucidchart, Google Appsheet

Experience

IPLYNX

Windsor, Ontario

Network Technician

April, 2024 – Present

- Built, tested and patched network systems for commercial clients
- Installed security systems and software, including my own custom built camera analytics software

SCELTA: CUSTOMS

Windsor, Ontario

Software Developer

May, 2023–June 2024

- Engineered new version of a 3D home configurator using Unreal Engine, React, and AWS
- Created custom software for clients using ReactJS and AWS, or using Google Appsheets
- Built a full-stack, docker containerized supplier/dealer management platform with Nextjs/Tailwind, .NET and Azure SQL
- Designed data structures for management software for clients
- Debugged and redesigned software according to feedback from clients
- Modernized old, legacy software for various companies to improve operations

ATLAS TUBE: A DIVISION OF ZEKELMAN INDUSTRIES

Harrow, Ontario

Health and Safety: Database Intern

June, 2018 – January, 2020

- Managed Learning Management Software (LMS) databases.
- Communicated ideas and solutions in meetings with supervisors.

Education

UNIVERSITY OF WESTERN ONTARIO

London, Ontario

B. E. Sc. Software Engineering, GPA: 3.9

April, 2023

Capstone (Glimpse): Application that prompts the user to take a picture, then finds a fitting song to play based on the environment using artificial intelligence and machine learning, as well as image recognition.

Relevant Coursework: Embedded software, Agile methodology, Software design, Web design/programming, Game design/programming, Cybersecurity, Multithreading, and Networking.

Leadership and Activities

UNIVERSITY OF WESTERN ONTARIO

London, Ontario

Senior Design Team Lead: Embedded Systems

September, 2021 – April, 2023

- Designed a PCB for the sensors of the plane and the general electronics.
- Programmed the individual sensors, as well as the radio in order to send telemetry data to the ground station.
- Designed and built web interface for telemetry data from the plane
- Analyzed problems that arose at competition and solved them with innovative solutions.
- Modeled image recognition system and flight algorithm for autonomous flying.

GLIMPSE

London, Ontario

Lead Backend Engineer

September, 2022 – June 2023

- Developed iOS application that takes a photo and returns a song that fits the ambience of that photo.
- Engineered full backend using AWS, OpenAI API, and SpotifyAPI.