

Malik Zurkiyeh

[My Portfolio](#) • [LinkedIn](#) • [GitHub](#) • malik.zurkiyeh@gmail.com • (343) 997-2591

Education

Algonquin College of Applied Arts and Technologies

Ottawa, Ontario

College Diploma in Computer Engineering Technology

Relevant Coursework: Object-Oriented Programming, Data Structures, Real-Time Programming, Networking, Simulation, Embedded Systems and Software, Cloud Frameworks, Web Development, Computer Science

Projects

Chatbot

Remote

Open-Source Contributor

January 2024 – Present

- Developed the base for a Python-based ChatGPT-like program powered by OpenAI and LangChain frameworks
- Designed prompts ensuring relevance, accuracy, and source citation, improving oral and written communication with users
- Implemented Chroma embeddings for trained data storage and scalability of memory recall in software systems
- Applied coding standards and best practices in software design and development

Login Page

Remote

Developer

- Created a Python-based RESTful API using the Flask framework and MariaDB to simulate secure authentication and account management
- Integrated custom authentications for passwords, names, emails and duplicate accounts using MariaDB methods and Regular Expressions, resulting in improved reliability and detail-oriented validation
- Implemented sessions to simulate logging in and logging out
- Containerized application via Docker for seamless application across different environments using orchestration services, including but not limited to, docker compose
- Optimized Docker files to ensure adherence to best practices, coding and industry standards
- Adjusted code to protect data from attacks identified by OWASP such as SQL injection and password storage

Arduino Pong

Remote

Developer

- Designed and developed a Python based clone of Pong with Arduino functionality, developing experience in embedded systems, simulation, electronics and electrical engineering in the process
- Implemented functions to read potentiometer values for paddle movements and LEDs for scoring

Skills & Interests

Programming Languages: HTML5/CSS, Python, Java, Bash, C/C++, C#, JavaScript

Frameworks: Docker, Flutter, Flask, Docker, Arduino, Visual Studio/Code, Git, GitHub, AWS EC2, Amazon RDS, AWS VPCs, Postman

Databases: PostgreSQL, MySQL and MariaDB

Operating Systems: Windows, Linux

Professional: Verbal, Communication Skills, Teamwork, Problem-Solving, Collaboration, Constructive Feedback, Detail-Oriented, Reliability, Analytical, Organized, Learning New Technologies, Software Development, Coding Standards, RESTful APIs, Container Deployment, Cloud Technologies, Data Structures

Spoken Languages: Fluent Arabic and Conversational French

Experience

Real Canadian Superstore

Customer Service Associate

Ottawa, Ontario

August 2020 – Present

- Delivered efficient customer support, demonstrating strong problem-solving skills, collaboration, and teamwork, resulting in increased sales and reduced service wait times
- Operated computer systems and internal databases, ensuring accurate transaction management and order processing
- Developed transferable skills in both oral and written communication, management, and the ability to quickly learn new technologies in a high-demand environment