

Hamza Israr

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Summary

A highly motivated and innovative software engineer with over 5 years of academic and professional experience in developing robust applications and solving complex technical challenges. Demonstrates a deep passion for coding, with a strong ability to translate complex ideas into efficient solutions. Proficient in Python, JavaScript, and cloud computing technologies such as AWS. Eager to leverage expertise in full-stack development within a dynamic and collaborative environment.

Education

- **University of Ottawa**, Bachelor of Science Honours Computer Science *Fall 2020 – Summer 2024*
- **Earl Of March Secondary School**, High School Diploma *Fall 2016 – Spring 2020*

Technical Skills

- **Languages:** Python, JavaScript, Node.js, React.js, Firebase, HTML, CSS, Java, C#, SQL
- **Frameworks and Libraries:** Event-Driven Architecture, React.js, Node.js, API Integration, Unity
- **Tools and Platforms:** Git, Android Studio, Firebase, AWS, Adobe Premiere Pro, Adobe Photoshop
- **Automated Testing:** JUnit, PyTest
- **Additional Skills:** Problem Solving, Presentation Skills, Team Collaboration, Software Project Management

Experience

Data Scientist/Computer Analyst

Tausiturni

Spring 2021 – Spring 2024

- Collected, cleaned, and preprocessed large datasets from various sources to identify trends and insights.
- Designed and implemented machine learning algorithms tailored to solve specific business problems.
- Optimized algorithms for enhanced performance and scalability, ensuring accuracy and reliability.
- Developed and maintained databases and data pipelines, ensuring data integrity and security.
- Led the development of an AI tool utilizing the LinkedIn API to assist professionals in revamping their LinkedIn profiles.

Research Contributor

University of Ottawa

Fall 2023 – Spring 2024

- Developed and refined algorithms for Cube Drawing and Connect the Dots tasks on a cognitive assessment platform, improving scoring accuracy and consistency.
- Collaborated with the research team to implement automated scoring, leading to the platform's successful adoption by clinical users.

Java and Python Tutor

Self-Employed

Fall 2022 – Fall 2024

- Delivered tailored tutoring sessions in Java and Python, resulting in a 20% increase in student enrollment and improved performance.
- Created customized lesson plans to simplify complex concepts for high school and university students.

Phone Repair Technician

IFixit Wireless

Summer 2022

- Conducted diagnostic assessments on various mobile devices to identify hardware and software issues.
- Performed repairs, including screen replacements and component-level troubleshooting, resulting in a 95% customer satisfaction rate.

Projects

LinkedIn Profile Optimization Tool — LinkedIn API, OpenAI API, Python

Professional Profile Enhancement Application

Winter 2024

- Developed an AI-driven tool that integrates with the LinkedIn API to analyze users' profiles.
- Implemented natural language processing algorithms to provide personalized recommendations for profile improvements, enhancing visibility and engagement.
- Ensured compliance with LinkedIn's API usage policies and maintained user data privacy.

Solace Challenge — Solace PubSub+, Firebase

Real-Time Collaborative Learning Platform

Winter 2024

- Developed a platform for real-time collaborative learning, enabling users to engage in interactive tasks and challenges.
- Provided instant feedback and progress tracking while facilitating seamless communication between participants.

React Netflix Clone — TMDB API, React.js, Node.js

Movie Browsing and User Authentication Application

Spring 2023

- Developed an application mirroring Netflix's functionality using the TMDB API.
- Implemented features such as movie covers, descriptions, cast details, search functionality, and a recommendations section.
- Integrated full user registration and login capabilities.

React Weather Application — OpenWeatherMap API, React.js

City-Based Weather Data Display

Winter 2023

- Created an application that allows users to input their city of choice and displays the current weather data and its corresponding animation.

Android Class Scheduling Application — Google Firebase, Android Studio

Class Management and Scheduling Tool

Summer 2021

- Led a team to develop a class scheduling application with features like adding/removing classes, schedule management, and full user authentication using Google Firebase.

Java Decision Tree Classifier Development

Machine Learning with Decision Trees

Winter 2021

- Developed a decision tree classifier by progressively building upon foundational data processing tasks.
- Implemented CSV parsing, metadata extraction, and recursive algorithms for decision tree construction in Java.
- Enhanced the classifier with exception handling, generics, and custom output formatting for better interpretability.

Martello Murder Mystery Challenge — JavaScript, HTML, CSS, Node.js

Interactive Problem-Solving Game

Winter 2020

- Successfully solved the Martello Murder Mystery Challenge and secured second place at CUHacking 2020.
- Developed a solution utilizing JavaScript, HTML, CSS, and Node.js.

Unity Class Scheduling and Study Timer Application — Unity, C#

Class Scheduling and Time Management Tool

Fall 2019 – Winter 2020

- Designed and developed an application for class scheduling and time management.
- Integrated functionalities for class management, schedule creation, and a study timer feature.

Certifications & Awards

- C# (Basic), HackerRank Issued Feb 2022
- Java (Basic), HackerRank Issued Feb 2022
- Python (Basic), HackerRank Issued Feb 2022
- University of Ottawa Entrance Scholarship Fall 2020