Jarryd Harker

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GitHub: https://github.com/JarrydHarker

Professional Summary

Motivated computer science graduate with a strong foundation in software development, data structures, and algorithms. Experienced in building web applications using modern frameworks and passionate about solving complex problems.

Education

Bachelor of Computer and Information Sciences in Application Development
Varsity College Nelson Mandela Bay, South Africa
February 2022 - December 2024

Relevant Modules:

- Programming
- Databases
- Cloud Development
- Systems Analysis and Design
- IT Project Management
- Open-Source Coding (Mobile Development)
- Principles of Security
- Application Development Security
- Work Integrated Learning

National Senior Certificate
Grey High School, Port Elizabeth, South Africa
2016 - 2020

Technical Skills

Programming Languages: C#, Kotlin, JavaScript, Java, C++

Web Development: HTML, CSS, ASP.NET Core

Databases: MySQL, Firebase, SQLServer

Tools: Git, Docker, Azure

Other: Blender, Unity

Projects

Municipal Ticket System

- Created a wpf application using C#, WPF, and SQL Server.
- Designed and implemented an AI chatbot, using Ollama API integration, to assist with user queries.
- Used queues, linked lists, graphs, and binary search trees
- GitHub: https://github.com/JarrydHarker/Prog-Poe-Public

Automated Attendance Tracking System (Team Lead)

Led a team of 5 students in developing an automated attendance tracking system for the university.

- Prototyped and built a physical device using ESP32 microcontrollers and C++.
- Developed the scanning logic and an Azure-hosted API to send attendance data to an Azure SQL database.
- Coordinated the efforts of team members responsible for building the UI and screens of the device.
- Developed a PWA for the system UI using C# and JavaScript.
- GitHub:
  - Website: https://github.com/JarrydHarker/Work-Integrated-Learning-public-
  - API: https://github.com/JarrydHarker/Work-Integrated-Learning-API-

Limitless (Team Lead)

- Led a team of 5 students in developing a mobile application while being the sole back-end developer.
- Developed a mobile application using Kotlin that connects to Firebase for real-time data synchronization.
- Implemented user authentication and data storage functionalities.
- Conducted code reviews and mentored team members on best practices.
- GitHub:
  - App: https://github.com/JarrydHarker/Limitless-public
  - API: https://github.com/JarrydHarker/Limitless-API-