Mahdeen Abrar

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EDUCATION

Dalhousie University – GPA: 4.26/4.30 - Ranked 2nd in Year   Halifax, NS
Bachelor of Computer Science   *Sep. 2020 – May. 2024 (Expected)*
- **Relevant Courses:** Data Structures and Algorithms, Computer Networking, Distributed Systems.
- **Awards:** Bruce and Dorothy Rossetti Silver and Bronze Awards, Aliant Ambassador Scholarship, Sexton Scholar.

EXPERIENCE

Backend Web3 Development Intern   Feb. 2023 – Current
Koii Network   *Halifax, NS*
- Spearheaded the development and optimization of the Koii Node application, overseeing a **network of 40,000+ nodes**. Ensured seamless blockchain and crypto functionalities preparing for the startup's launch.
- Enhanced user clarity and ease of access by testing and debugging diverse issues, **closing over 15 bug tickets**.

Intern Software Developer   May. 2023 – Aug. 2023
Avanade   *Halifax, NS*
- Consulted and communicated closely with customers to seamlessly build and migrate software and data to the company Azure cloud environment.
- Automated integration and delivery of the entire Azure solution using Terraform and Powershell, **decreasing infrastructure build duration by 40%.**
- Led and **managed the 4 person company intern team** as a project engineering lead, facilitating communications between the interns, clients, and the project manager.
- Developed CI/CD pipelines for production, testing, and staging environments, **increasing build error-detection rates from 62% to 99.99%.**

Software Development Intern   Sep. 2022 – Dec. 2022
Quest Software   *Halifax, NS*
- Developed in-house software using C# that allows product managers to **supervise 100+ employees'** Azure environments across **10 different Azure subscriptions** corresponding to specific Quest products.
- Reviewed, upgraded, optimized, and debugged **50+** existing code bases for Quest's On Demand Audit software, which expanded software functionality and yielded a **12% reduction in system errors**.
- Overhauled the in-house software's entire design with WinForms/DevExpress, **resulting in 5 new features**. Enabled direct Azure subscription management and streamlined error clarification, alleviating the need for prior configuration.

Coding Instructor   Aug. 2021 – Aug. 2022
Code Ninjas   *Hallifax, NS*
- Led students through the process of constructing interactive video games, emphasizing coding fundamentals such as variables, control flow, debugging techniques, OOP, and testing frameworks.
- Managed **groups of up to 20 students**, guiding them in creating personalized games using JavaScript, Lua, or C# based on their skill levels.

PROJECTS

Groove Guru | *React.js, Node.js, Express.js, Vercel, Python, SpaCy, NLTK, SpotifyAPI*   Feb. 2023 – Current
- Developing a simple chat bot that allows users to easily query audio features for Spotify recommendations.

MalSalvo's Last Stand - (Itch.io) | *Unity, C#, Blender, Git*   Sep. 2023 – Dec. 2023
- Developed a 3D top-down, hybrid, FPS tower defense game where a mad scientist takes over alien planets.

PutMeOn - (Video Demo) | *React Native, JavaScript, Firebase, Expo, SpotifyAPI*   May. 2023 – Jul. 2023
- Created a full-stack, Tinder-style social media application to showcase and discover music from other people.

TECHNICAL SKILLS

Languages: Java, JavaScript, Kotlin, Ruby, C#, C, Python, SQL, TypeScript, HTML
Frameworks: Spring Boot, React, Node.js, Express.js, Rails, JUnit, Terraform, SpaCy, Espresso, OpenGL
Developer Tools: Android Studio, MongoDB, Git, Expo, Unity, Firebase, Azure, Docker, Vercel
Certifications: Azure Fundamentals: AZ900, Azure AI Fundamentals: AI900