MARIAMA ALI

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Targeting Role As: Software Development Intern

Forward-thinking and adaptable professional with on-going education and strong passion for Computer Programming. Progressively builds upon fundamental knowledge in database management and full-stack development to participate in the development and deployment of scalable and reliable creative solutions. Applies exemplary communication and coordination skills to accomplish project objectives, reviewing codes and debugging errors while optimizing user interfaces to deliver robust, easily operatable, and completely functional products.

CORE SKILLS & COMPETENCIES

- Full-Stack Development ● Team Leadership ● UI/UX Design
- Database Management ● System Design, Analysis & Testing ● ● Client Relationship Management ● Functional Testing ● Cross-Functional Collaboration
- Code Review

EDUCATION

Advanced Diploma, Computer Programming & Analysis George Brown College | Toronto, ON   **Exp. Apr. 2022**

Relevant Coursework: Database Development | Full Stack Development | Linux Essentials | Data Structures & Algorithms| Applied Data Science | Agile Software Development | Object-Oriented Programming | Web Application Development | System Analysis, Design & Testing | Web Programming | IT Essentials | DevOps

Sampling of Skills Acquired:

- **Database Management:** Utilized MySQL to grasp critical aspects of database management including database design, creation, modification, retrieval, and administration, with added focus on relational database modeling.

- **Full Stack Development:** Studied Angular and NoSQL to acquire fundamental knowledge in full-stack development (via MEAN Stack) while familiarizing with Express framework and Node.js environment.

- **Linux Essentials:** Mastered central concepts, controls, and practices applied in working on a UNIX operating system including shell scripting, user environment setup, file and process management, and network administration.

Key Projects:

Capstone Project

Directed front-end and back-end development of a mock online website designed to connect tutors and students, successfully integrating modern functions including a video chat system.

- Summarized design, technology, architecture, and methodologies applied throughout the project for class reporting. Mapped out use-cases and non-functional requirements through UI/UX diagrams to optimize user experience.

- Reported to professor and class to demonstrate completed product, performing on-site demonstrations to present technical aspects and functionalities while answering inquiries as required.

- Engineered scalable, responsive, multi-platform, SEO-friendly websites using Postgres, TypeORM, Redis, NexUS and ChakraUI, Javascript ES6+, SQL, and GraphQL best practices.

Spring Group Project

Served as technical lead guiding fellow students throughout ground-up development of a recipe book website with integrated user account creation system and functionalities allowing users to create and save shopping lists.

- Utilized Java to complete back-end requirements while leading task delegation, code review, functionality testing, troubleshooting, code compilation, and debugging process to ensure complete functionality before product release.

- Improved website performance through compression, caching, and lazy loading images and components

- Experienced in Agile project management and Scrum, supporting projects through meetings, planning and estimates, managing backlogs, and tracking progress.

Full-Stack Project

Successfully created employee management system capable of adding new employee accounts while storing their information within a database. Handled full-stack development through MERN Stack (MongoDB Express Stack Node).

- Implemented form validation system through React to prevent users from inputting invalid data and avoiding errors. Connected to backend APIs through CRUD HTTP requests and employed front-end best practices to develop comprehensive UI that can display employee information efficiently

PROFESSIONAL EXPERIENCE

Programming Tutor | Self-Employed | Toronto, ON   **Jan. 2021 – Present**

Employs foundational technical knowledge to deliver programming lessons for diverse clients, while also refining collaboration, communication, and leadership skills. Provides educational materials to evaluate client performance while strengthening understanding of programming concepts.

Key Responsibilities:

- **Client Relationship Management:** Continue to excel in developing long-lasting and trusted relationships with clients through all-inclusive communication, leveraging innate collaborative nature to successfully deliver lessons. Successfully capitalizes on word-of-mouth marketing to obtain new clients.

- **Code Instruction:** Provides instructions to cultivate technical knowledge and adherence to industry-best practices, covering in-demand topics including HTML, CSS, Flexbox, and JavaScript.

- **Code Review:** Evaluates client codes to identify, debug, and explain errors, while instilling knowledge in standard code formatting practices, naming conventions, and other relevant aspects to emphasize readability.

ADDITIONAL NOTEWORTHY EXPERIENCE

Customer Service Associate | <u>Walmart</u> | Toronto, ON   **Sept. 2019 – Current**
Sales Associate | <u>Best Buy</u> | Toronto, ON   **Nov. 2016 – 2018**

TECHNICAL ACUMEN

HTML5 | CSS4 | JavaScript | React | NPM | Git | GitHub | MySQL
Redux | SASS | Yarn | React dev tools | NodeJS | Express | MongoDB| TypeORM | Typescript | Postgres | NextJS
Microsoft Office Suite | Figma