Md Bin Amin Hossan

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PROFILE

As a dedicated and ambitious computer science student, I am eager to apply my knowledge and skills to contribute to a dynamic organization during a placement year. With a strong foundation in programming languages such as C, Python, and C++, along with proficiency in web development technologies like HTML, CSS, and JavaScript, I am well-equipped to tackle challenging projects and contribute to the advancement of innovative solutions. I possess a deep passion for problem-solving and a proven ability to work effectively in collaborative environments. Throughout my academic journey, I have successfully completed various projects, including an e-commerce website and a student grade management system, showcasing my ability to develop practical and efficient solutions. As an excellent communicator with strong analytical thinking skills, I am committed to continuous learning and staying updated with the latest industry trends. I am eager to leverage my technical expertise, enthusiasm, and dedication to contribute to the success of a forward-thinking organization during my placement year.

EDUCATION & QUALIFICATIONS

University of Roehampton - BSc (Hons) in Computer Science

(EXPECTED GRADUATION: MAY 2024).

SUBJECT(s) & GRADE(s)

Software Development 1- 60%
Software Development 2- 50%
Software Development 3- 50%
Databases - 60%
Algorithms- 60%

Details

- Software Development 1 - course work: Calculating Body Mass Index (BMI) Following the pseudocode or flowchart and Calculating age in relation to the current year with python.
- Software Development 2: It does so by examining concepts such as program representation, data representation, and assembly code at the low-level, and exception and error handling at the high-level.
- Software Development 3: Learned about C # with Classes,
- Encapsulation, inheritance, interfaces, design patterns, Gui and f#.
- Database: Introduction to Data and Database Management System,
- ERD Diagrams, SQL (DDL AND DML), ERD to Relational Mapping,
- Normalization, Relation Algebra, Advanced SQL joining, Subquery, view and Database security.
- Algorithm: Trees, data structures, time and space complexity, and several well-known algorithms, such as sorting, searching, and hash tables, were implemented.

SKILLS

- Programming Languages: Java, Python, C++.
- Web Development: HTML5, CSS3, JavaScript.
- Database Technologies: MySQL.
- Software Development: Agile methodologies, Git version control.
- Problem Solving: Strong analytical and critical thinking skills.
- Communication: Excellent written and verbal communication skills.
- Teamwork: Proven ability to collaborate effectively in team environments.

PROJECT

CRUD Application *(University Group-project)*

- **Developed a web-based CRUD application using [HTML, CSS, PUG, JAVASCREPT], [BOOTSTREP], and [MYSQL] to manage [specific data] in an efficient and scalable manner.**
- **Collaborated with a team of 2 members to plan, design, and implement the application following the principles of software engineering.**
- **Conducted requirements gathering, performed system analysis, and designed the application architecture to ensure optimal performance and maintainability.**
- **Implemented CRUD operations, data validation, and user authentication features, while adhering to industry best practices and coding standards.**
- **Conducted unit testing, integration testing, and user acceptance testing to ensure the quality and functionality of the application.**
- **Utilized version control tools, such as Git, for collaborative development and code management.**
- **Presented the project to a panel of faculty members and received positive feedback for the robustness and usability of the application.**

[Git Repository: Iron777ip/Brainstorming-: The place where we learn new skills (github.com)]

Web Development *(Personal project)*

- **Created a professional portfolio website from scratch using HTML, CSS, SCSS, and JavaScript.**
- **Designed and implemented responsive layouts and interactive features to enhance user experience.**
- **Utilized SCSS for modular and maintainable styling, ensuring consistency across the website.**
- **Implemented JavaScript functionalities for dynamic content, form validation, and smooth animations.**
- **Incorporated best practices for SEO optimization, accessibility, and cross-browser compatibility.**
- **Showcased personal projects, skills, and achievements effectively through an intuitive and visually appealing design.**
- **Continuously updated and maintained the website to reflect the latest projects and accomplishments.**

[Git Repository: yaminbd/Protfolio (github.com)]

Vacuum Cleaner *(University project)*

- **Developed a Python-based simulation of a vacuum cleaner to demonstrate cleaning algorithms and behaviors.**
- **Implemented the cleaning logic, including movement, dirt detection, and cleaning efficiency calculations.**
- **Designed an interactive user interface to control the simulation and visualize the cleaning process.**
- **Incorporated algorithmic optimizations for efficient cleaning and path planning.**
- **Received positive feedback from peers and recognition for the project's creativity and implementation.**

[Git Repository: yaminbd/Vaccum_cleaner (github.com)]

ADDITIONAL INFORMATION

Languages:

- English — C1,
- Bangla — C2,
- Hindi — C1,
- Urdu — B2.
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Leadership and Extracurricular Activities:

- **President, Computer Science Society - University of Roehampton (2022-2023)**
- **Participant, HackathonX Coding Competition (2022)**

INTERESTS

- **Exploring new technologies and staying updated with the latest advancements in the field of computer science.**
- **Participating in coding competitions or hackathons to challenge and enhance programming skills.**
- **Contributing to open-source projects and engaging in collaborative software development.**
- **Reading books and articles on computer science, artificial intelligence, and emerging technologies.**
- **Keeping up with industry blogs and podcasts to stay informed about current trends and developments.**
- **Engaging in recreational coding projects to explore new concepts and experiment with different programming languages.**
- **Volunteering for technology-related initiatives or mentoring programs to give back to the community.**
- **Participating in online forums and communities to connect with like-minded individuals and exchange knowledge.**