Fadil Amiruddin

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EDUCATION

George Mason University, *Bachelor Of Computer Science* Fairfax, VA, 08/2020 – 08/2024

SKILLS

Languages: Java, C++, Python, C, SQL, JavaScript
Web Development: React, HTML/CSS, Flask, React Native, AngularJS, AJAX
Technology: Docker, Git, JUnit, MongoDB, Selenium, Rest
Key Skills: Leadership, Critical Thinking, Problem Solving, Communication, Collaboration, Adaptability, Creativity, Agile

Relevant Coursework

Data Structures and Algorithms (Java), Low Level Programming (C), Computer Systems and Programming (C), Object Oriented Programming (Java), Essentials of Computer Science (Python), Formal Methods and Models, Databases (SQL/MongoDB), Algorithms Analysis (Python), Computer Systems (C), Intro to AI (Python), Blockchain

Work Experience

Stem Excel, *Coding Instructor/Tutor* Oct 2023 – Aug 2024

- Mentored students in **coding fundamentals**, leading to improved problem-solving skills and logical thinking.
- Customized **lesson plans** to accommodate diverse learning styles, boosting student engagement by over 25%.
- Delivered **personalized tutoring**, resulting in a measurable improvement in students' coding proficiency and academic performance.
- Fostered an **inclusive learning environment** that enhanced creativity and collaboration among students.
- Mediated conflicts to maintain a **positive classroom atmosphere**, promoting effective learning and teamwork.

Shared Spectrum, *Software Development Engineer Intern* May 2022 – Aug 2022

- Developed an animated **waterfall graph** in **React JS**, improving data interpretability from **PostgreSQL** databases by over 50%.
- Performed comprehensive **software testing** and optimization, ensuring robust functionality and an improved user experience.
- Created and updated **software applications** and websites, translating complex requirements into effective design solutions.
- Drafted detailed **design documents** based on user needs, streamlining the development process.

George Mason University, *Research Assistant* Jan 2022 – May 2022

- Supported the design and automation of **robotic BLIMP balloons**, improving aerial maneuverability and obstacle avoidance.
- Utilized **Micro Python** and **OpenMV microcontrollers** for advanced environmental navigation and interaction.
- Created web pages with **HTML** and **CSS** to showcase project milestones and research achievements.
- Implemented automated news updates using **Flask**, enhancing content management efficiency.

Bashpole, *Web Developer Intern* Dec 2020 – May 2021

- Built a dynamic website with **AngularJS**, improving user engagement and experience for non-profit organizations.
- Created a web application for **donation management**, integrating **Java Server Applets** with **PHP** and **Google Analytics** to enhance data tracking.
- Utilized development tools such as **Visual Studio Code**, **PHP**, **HTML**, **CSS**, and **Eclipse** to deliver solutions meeting client requirements.

Personal Projects

StrudL, *React Native-based Mobile Application* 06/2024 – 08/2024

- Designed and developed an interactive mobile application for **iOS** and **Android** that allows users to explore Vienna through location-based quests, leveraging **React Native** for a seamless cross-platform experience.
- Integrated **Google Maps API** to offer rich, location-based features, including route display, district identification, and navigation assistance.
- Utilized **ASYNC Storage** for efficient local data management, enabling persistent storage and retrieval of user data across sessions.
- Implemented features such as **Starting a Quest**, **Tracking Completion Rate**, and **Location Verification**, enhancing user engagement and interaction.
- Designed a user-friendly interface that allows users to view detailed quest information, hide the UI for better map visibility, and obtain navigation directions through Google/Apple Maps.
- Managed project development using **Scrum** methodologies and **GitLab**, facilitating iterative progress, effective team collaboration, and transparent tracking of project milestones and tasks.

Quizzy499, *Identity verification with blockchain* 03/2024 – 05/2024

- Engineered a blockchain-based system to prevent cheating in in-class polls, utilizing **Zero-Knowledge Proofs (ZKP)** and **Dock blockchain** for secure and decentralized user verification.
- Implemented a robust **SQL database** for managing user logins and storing credentials, ensuring reliable access and authentication.
- Developed the backend using **Flask** to handle user authentication, interaction with the **blockchain**, and **RESTful APIs** for managing signups and user data, integrating with **Replit DB** for additional persistent data storage.
- Integrated **Dockcert** for issuing credentials and **Mailchimp** for automated communication, enhancing compliance with privacy standards. Additionally, utilized **AJAX** to retrieve quizzes stored in a **SQL** database.
- Designed and implemented the frontend interface using **HTML, CSS, and JavaScript**, creating an intuitive user experience for interacting with the poll system and blockchain features.