Syed W. Hasan

+1 (732) 474-8486 | syedwadoodhassan@gmail.com | linkedin.com/in/syedwadoodhasan/ | github.com/swhasans

Experience

Field Engineer Co. July 2022 - Present

Software Engineer *Piscataway, NJ*

- Developed and maintained an online marketplace platform, connecting businesses with available Telecom Engineers.
- Implemented RESTful APIs with Node.js and Express, improving response time by **30%**.
- Employed Mongoose object modeling tool, to map JSON data structures to MongoDB documents, enhancing input data validation and integrity.
- Implemented automated testing using Jest, achieving **95%** code coverage and reducing the number of bugs in production.
- Enhanced query performance by creating MongoDB indexes, resulting in a **20%** decrease in query execution time.

Brand New Galaxy MEA Oct 2021 - June 2022

Software Engineer Intern *Sufouh, Dubai*

- Collaborated with company on capstone project to develop Python and JavaScript automation system using Selenium web framework for efficient input of customer responses into online submission forms.
- Successfully developed and deployed an automated system that achieved error-free data entry and resulted in increased completion of entries from **1000** to **48,000+ entries** per day with the automated process.
- Reduced manual data entry by **85-90%** through the implementation of the automated system, decreasing the need for man hours by **46**.
- Contributed to the entire product development life-cycle, from ideation to feature enhancement, resulting in a faster and more efficient process for the end-client.

Projects

Pitch Perfect | *Java, HTML/CSS, JSoup, JavaScript, NLP API, AJAX, JDBC, MySQL, Git*

- Designed and programmed a responsive web application and database, that helps discover sport activities and book facilities nearby.
- Integrated Servlets to process and aggregate third-party data for seamless operations of web service, boosting loading speed by **20%**.

SPFD | *Python, Tkinter, Bash, FreeCAD, Fritzing, Ultimaker Cura*

- Prototyped and implemented a DIY Smart Pet Food Dispenser using a Raspberry Pi, with a automated weighing system that controls the amount of food and delivery intervals while enabling customization.
- Re-created enclosure within FreeCAD software featured with mounting holes, brackets and cable management for RPi that reduced model fitment errors by **40%**.

Financify | *JavaScript, HTML/CSS, Figma, MySQL, Git*

- As part of a team, I developed a mobile app soft-prototype, Financify, for diversifying investments, placed **1st** runner up in a pitch competition. Utilized AI/ML for stock price prediction and real estate investment analysis.

RPS | *Java, FXML, Figma, Git*

- Developed a multi-threaded multiplayer game with GUI and communication protocols, resulting in a smooth and responsive gaming experience for players, with a performance increase of up to **50%** by handling multiple tasks concurrently.

Education

Middlesex University September 2019 — June 2022

Bachelor in (Honours) Computer Systems Engineering; In-major GPA: 4.0 *Sufouh, Dubai*

- **Relevant Coursework:** Data Structures & Algorithms (DSA), Object Oriented Programming (OOP), Software Development Life Cycle (SDLC), Web Apps Development, Databases, Computer Architecture, Embedded Systems, Design of Usable Interactive Systems
- **Awards:** First-Class (I) Honours Graduate, Academic Excellence Merit Scholarship, Winner at Technovation 21-22 (FinTech) Competition

Technical Skills and Others

Languages: Java, Python (prior experience), HTML/CSS (prior experience), JavaScript (prior experience), C#, C/C++, VHDL, LaTeX
Frameworks and Tools: Express.js, Mongoose (ODM), Tkinter, PyQt, Jest, Apache Maven, JMeter, JIRA, Log4J, Selenium, TestNG
Technologies: Node.js, REST APIs, Postman, MySQL, MongoDB (MongoSh), Bash Shell, AJAX, MS Power Automate, Figma, Git
DevOps: Docker, GitHub Actions, Amazon Web Services (AWS)
Other: Authorized to work for any US employer (no sponsorship required)