

# Syed Wadood Hasan

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## Experience

### Brand New Galaxy MEA

Oct 2021 - Nov 2021

Software Engineer Intern

Sufouh, Dubai

- Implemented automation to streamline customer response to online submission forms, reducing data entry time.
- Developed an automated process that achieved nearly error-free data entry, resulting in the completion of approximately **48,000+ entries** per day.
- Reduced manual data entry by **85-90%** through the implementation of the automated system, decreasing the need for man hours by **46**.

## 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%**.

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

- 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.
- Implemented a CRM platform for real estate management, improving communication and resolution of issues for tenants, property owners, and maintenance agencies.

### 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.
- Experience in designing and implementing a client-server architecture that enables efficient management of game state and communication between clients, resulting in scalable, high-performance, and secure applications.

### 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%**.

### Auto-Fill | Python, HTML/CSS, JavaScript, Selenium, PyQt, Git, Figma

- Designed and implemented a productivity application with a Graphical User Interface (GUI) that deals with Business Process Automation (BPA). It automates the process of manual data entry onto online submission forms.
- For scripting purposes Python and JavaScript was used. The User Interface was designed using PyQt (Python Plug-in). Selenium web framework was used for browser automation.

## Education

### Middlesex University

September 2019 — June 2022

Bachelor in (Honours) Computer Systems Engineering; First-Class Honours (I)

Sufouh, Dubai

- Relevant Coursework:** Data Structures & Algorithms (DSA), Object Oriented Programming (OOP), Web Apps Development, Embedded Systems, Design of Usable Interactive Systems
- Awards:** Academic Excellence Merit Scholarship, Winner at Technovation 21-22 (FinTech) Competition

## Technical Skills and Interests

**Languages:** Java, Python (prior experience), HTML/CSS (prior experience), JavaScript (prior experience), Ruby, C/C++, SQL, Bash, VHDL, LaTeX

**Frameworks:** Ruby on Rails, Tkinter, PyQt, catch2, Selenium

**Technologies:** Postman, AJAX, JSoup, JDBC, MySQL, MongoDB, Git, MS PowerAutomate, Figma, FreeCAD, Fritzing, Ultimaker Cura, and Notion

**DevOps:** GitHub Actions, Amazon Web Services

**Other:** Authorized to work for any US employer (no sponsorship required)