

Madeeha Balouch

Bachelor of Science in IT Graduate

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Hardworking and dedicated IT graduate with a passion for Software Engineering with expertise in python, data analytics, machine learning along with a solid grasp of relational databases and web development. Actively participating on platforms like LeetCode and engaged in side projects to enhance technical skills. Seeking opportunities to apply knowledge and drive innovation while pursuing continuous professional development in Software Engineering.

Technical Profile

- Strong Networking and Security Knowledge
- Strong DSA and OOP Knowledge
- Python (Highly proficient)
- Relational Databases (MySQL)
- Data Analysis (Pandas, Numpy, Scipy)
- Version Control System (Git)
- Web Development (HTML, CSS, Javascript, Bootstrap)
- Machine learning

Competencies

Technical and Analytical Proficiency
Planning and Organization
Problem Solving
Fast Learning
Stakeholder Management
Excellent Verbal and Written Communication
Presentation Skills
Self-starter

Work History

2022-06 - 2022-09

Information Technology Intern

Huawei, Dubai

- **Reviewed system and network performance** to make **proactive adjustments** based on established IT policies.
- Gathered and translated project requirements and collaboratively worked to define scope and milestones.
- **Collaborated** with other interns on projects to meet program requirements and demonstrate skills development.
- **Researched and Designed** FTTH networks using GPON technology.
- **Researched and Recommended** network and data communications hardware and software. Performed day-to-day monitoring, management, administration, and support of alarms systems with the GPON team.
- Collaborated with network administrators and server engineers to ensure service quality.
- Suggested upgrades and expansions for the sites with the design team. Collaborated with the Microwave team and gained experience in configuring Microwave links between two sites.
- Additionally, performed several site visits for better understanding of the hardware and its operations while closely observing the implementation process.

2022-07 - 2022-08

Retail Sales Intern

Du, Dubai

- Worked closely with a **diverse customer base** to promote and sell a variety of devices and mobile plans.
- Achieved weekly sales targets. Engaged in regular team meetings to discuss both my accomplishments and challenges.
- **Evaluated** existing practices and shared insights with management to aide in decision-making and help streamline processes. Analyzed problems and worked with teams to develop solutions.

- **Demonstrated statistical skills** using the software called matlab, along with the use of python and its libraries.
- Completed research, compiled data, updated spreadsheets, and produced timely reports.
- **Effectively addressing conflicts** that arise during work, all while assisting customers in making well-informed choices regarding their device and phone plan requirements.
- Composed surveys to obtain feedback from consumers. Shadowed daily activities of office staff to gain understanding of scope of work.

2021-11 - 2022-02

Front-end Developer

Classat (start-up), Ajman

- Designed and Produced websites compatible with multiple browsers and devices.
- Guided customers on project stages and iterations with input on best practices, user needs and technology capabilities.
- Handled special projects designated by senior developer.
- Scheduled meetings with clients to discuss website design preferences and requirements.
- Coordinated usability testing and corrective action of bugs.
- Utilized HTML5, CSS3, and Bootstrap. Built reusable code that could be utilized in other projects.

Education

2019-09 - 2023-06

Bachelor of Science: Information Technology

Ajman University - Ajman, UAE

- Honors Assembly (Bronze Medal) - Academic Achievement Award.
- Best Scientific Research Award for Graduation Project.
- Secured my name on the Dean's list consistently all four years.
- CGPA: 3.88, Merit: Excellent with Honors.

Accomplishments

- Acknowledged by my university for outstanding academic performance and honored with two invitations to the prestigious Honors Assembly.
- Secured the third-place position in the Cyber Security Challenge during the 16th IEEE UAE Student Day Competition.
- Participated in the Global DevSlam Future-Hack Hackathon hosted at the Dubai World Trade Center, where our team was among the selected top eight out of 50 groups to present our innovative idea.

Projects

AUBot Enhanced with LangChain

- This simple project is another take on my graduation project with different technologies.
- It is developed using the LangChain framework and is coded in Python.
- It is a utilization of one of the framework's use cases to converse over a provided document.
- Uses Ajman University's Student Handbook as the source of information, data from the handbook is broken down into chunks, which is then vectorized and the information is retrieved based on similarity analysis.
- Incorporates OpenAI's LLM API for a more natural response.

Graduation Project: AUBot (Chatbot)

- Created a chatbot using AWS services (Lex (NLU model), Lambda, S3, IAM).
- Developed a demo website (HTML5, CSS3, JavaScript, Bootstrap).
- Integrated the chatbot with a third-party platform (Kommunicate).
- **Automated remote data updates in AWS, local SQL Database integration to synchronize the data stored in S3 with the local db.**
- Conducted user testing for design and functionality improvements.

Certifications

2023-03	Cloud and Wireless Security
2023-04	Pattern Discovery in Data Mining
2022-06	AWS Cloud Foundations
2022-06	AWS Data Center Technician
2022-08	AWS Machine Learning Foundations