BASIL SAEED

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EDUCATION

Qatar University   **Doha, Qatar**
BSc, Computer Science   Aug 2021 – Jun 2025
Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Fundamentals of Databases, Software Engineering, Networks and Data Communications, Operating Systems, Web Development, Machine Learning, Computer Security, Mobile Application Development, Data Science Fundamentals

EXPERIENCE

Engineering Intern   **Jun 2024 – Aug 2024**
Arab Center for Research and Policy Studies   *Doha, Qatar*

- I worked on a "Task Orchestrator" that eased the deployment process of various tasks of the development team to be run/deployed on the cloud using AWS ECS, S3, Terraform, Ansible and various other tools, the system was developed in python.
- I worked on the systems design, application development and devops for this project.
- Since the Arab Center did not have a devops mechanism in place yet, I was tasked with trying out different solutions, the first was a pull based system, virtual machines were pre-provisioned with the necessary dependencies to run the apps, then the VMs pulled different tasks that were put into a queue.
- The second and final solution was a push based system that spinned up containers in AWS ECS and sent the results to an S3 bucket.
- As it was an on-site internship, I learned various things about being in a workplace, I also multi-tasked, working on tasks aside from the main project i.e. on data science and web scraping.

PROJECTS

anim

- Designed and developed a domain specific language to animate 3d skinned meshes using the Rust programming lanuguage, check it out at: github

Multi-Modal Large Language Model-based App for Plant Disease Detection

- Utilized self-curated data from different sources on websites, github and datasets on YOLO for RAG and used LLMs to implement a system for plant disease detection.
- Since it was a final year project, I worked with three other teammates, distributing the frontend and backend.
- Worked on the backend (I coded some flutter functions as well), designing the REST API with fastapi, and also designing and coding the rate limiting module (which was a queue with a timer) to send requests to Gemini's free tier.
- Design and coding of the RAG (Retrieval Augmented Generation), and selection of supabase (pgvector) as the RAG database to fetch results to send to the LLM.
- Docker was only used to host the supabase instance.

Ventory

- Discovered a problem that supermarkets all over Qatar do not use any modern technologies to increase their sales, so developed a platform similar to shopify so that they can connect their inventory and also perform other tasks in the app such as interactive poster generation.
- Developed an MVP in a week using Next.js and deployed on Vercel with analytics using supabase as the database and mixpanel for analytics and measuring retention from the most valuable actions performed on the site.
- Went out to do B2B sales, but faced rejection, so learned sales, and took a questions first approach, and managed to demo the product to shopkeepers.

SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, C, PL/SQL, HCL
Tools: Git/GitHub, Gradle, Docker, Linux shell commands/bash scripting, Jupyter Notebook, RabbitMQ, Selenium WebDriver, Terraform, Ansible, AWS ECS, AWS S3, GCP Compute Engine, FastAPI
Frameworks: Spring, Prisma, Next.js, Flutter

Concepts/Methodologies: RESTful Architecture, Testing (Unit Testing, Integration Testing), Waterfall and Agile Software Processes, ER/EER Diagrams and Mapping to Relational Schema, UML Diagrams, SOLID principles

Awards/Certifications: CCNA (Cisco Certified Network Associate 2023), Dean's List Award 2021 & 2025

OTHER WORK

Mobile Ticketing Volunteer   **Nov 2022 – Dec 2022**
FIFA World Cup 2022   *Doha, Qatar*
- I was directly involved in helping people resolve mobile ticketing issues on the FIFA ticketing application to enter the stadium and learned customer service.
- Reduced queue formation by ~30% by helping people resolve their ticketing problems before they reached the ticketing booth.

Ticket Scanner   **May 2025 – May 2025**
ITTF World Table Tennis Championships Doha 2025   *Doha, Qatar*
- Scanned tickets and helped people, did customer service.