Ali Asjad

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EXPERIENCE

Research Assistant II - Web Developer

May 2022 – Present

University of Guelph

Guelph, ON

- Designed and developed a user-friendly front-end dashboard for Ontario sheep farmers using Vue.js, enabling over
 500 active users to seamlessly add, retrieve, and manage critical livestock data.
- Built and optimized the backend using **Django** and **Python**, implementing **RESTful APIs** to handle data storage, retrieval, and processing with **99% uptime**, ensuring a reliable user experience.
- Implemented and integrated custom algorithms in the backend that calculate mating results with 95% accuracy, based on the genetic and physical characteristics of male and female sheep, helping farmers optimize breeding decisions by 30%.
- Developed and configured Docker containers for Vue.js, Flask, Express.js and MySQL, successfully deploying within a secure VPS environment, ensuring robust security measures

Software Intern May 2021 – Aug 2021

TereSol Pvt. Ltd.

- Engineered modular microservices architecture for front-end, back-end, and middleware using Quarkus, Java,
 Vue.js, and MySQL, enhancing system scalability by 50% and enabling seamless feature integration.
- Developed and optimized RESTful APIs leveraging Insomnia and MySQL, **reducing database query execution time by 35%** and improving data retrieval efficiency for users.
- Improved collaboration and deployment efficiency by implementing **best practices for microservices**, ensuring clear communication between components and faster response times for end-users.

Technical PROJECTS

Rate My Courses / AWS RDS, Django, React, MySQL

Oct 2024 - Present

- **Developed a course review application** using **Django** and **React**, enabling users to submit, tag, and view course reviews with features like **professor ratings** and **course difficulty**
- Automated deployments by creating CI/CD pipeline with GitHub Actions to deploy to Hostinger VPS, reducing deployment time from 20 minutes to 5 minutes.
- Designed and implemented a robust relational database schema to manage over 1,000 course reviews and tags, leveraging
 Django ORM for efficient interaction with MySQL
- Deployed the application in a production environment, configuring nginx as a reverse proxy and Gunicorn as the WSGI server, ensuring scalability and optimal performance
- Migrated the database to AWS RDS, improving application scalability by 40% and supporting seamless collaboration among a team of 3 developers and a project manager

Course Scheduler / Python, Flask, React, PostgreSQL, AWS

Sept 2022 – Dec 2022

- Collaborated with a team to develop a full-stack web application, using Flask for the REST API and React for the front end, hosted on AWS
- Parse data from HTML files using Python, exporting it to CSV files and hosting the result on DynamoDB
- Developed REST APIs with Python to connect the backend to the front end, enhancing data interaction efficiency by 25%
- Set up CI/CD pipelines using GitLab, automating testing and deployment, reducing manual errors by 40%

TECHNICAL SKILLS

Programming Languages: Java, Python, C, SQL (Postgres/MySQL), NoSQL (DynamoDB), JavaScript

Frameworks: Vue, Node.js, Flask, Django, Quarkus, React/Next.js

Developer Tools: Git, AWS (RDS, EC2), nginx, Gunicorn, Postman, Docker, Firebase, REST APIs

EDUCATION

University Of Guelph Guelph, ON

Bachelor of Computing in Computer Science, Minor in Business Economics

Sep. 2019 - May 2024