RAZVAN GOREA

razvan.gorea2@mail.dcu.ie | https://razvan-gorea.github.io/my-website/ | 0899654405 | Dublin Ireland

EDUCATION

DUBLIN CITY UNIVERSITY
B.Sc. IN COMPUTER SCIENCE

PROJECTS

Multi Agent Large Language Model Application

- Implemented a full-stack system that can query multiple different pinecone namespaces at one centralized point using a multi agent retrieval augmentation generation workflow with **Python**, **LangGraph** and **Mistral** .
- Implemented **CI/CD pipeline** with yaml on gitlab to build the frontend **React** application and run **Pytest tests**.
- Implemented security around user data access through user acess permissions and metadata.
- Built an intuitive chatbot interface with **Next.js** and **Fast API**, allowing a person to query the **Langgraph** backend.
- Collaborated with a project partner in weekly **sprints** to delivery brand new features, bug fixes or documentation.
- Discussed weekly with a project supervisor (in-person and Zoom), detailing meaningful project updates or potential bottlenecks.

Weather & Outdoor Trails Application

- Implemented a google maps style **React** application with **React Leaflet** to display outdoor trails (hiking, walking and cycling) to users along with weather information within Ireland.
- Collaborated with project partner to create and deliver functional requirements, specifications and features.

University Management Application

- Implemented a **frontend React application** allowing a user manage modules, cohorts, and students.
- Utilizing multiple different types of **RESTFUL API** endpoints to support reading, writing and updating records.

Pizza Ordering Application

- Implemented a **Django** application that allows users to create a pizzas which gets saved onto **SQL lite** database.
- Implemented the ability for users to select from different types of toppings, crust types and sauce types.

Shell

- Implemented a shell in **C**, capable of running many common linux commands.
- Implemented batch mode as well as background execution through forked processes.
- Implemented a make file to build the shell.
- Created supporting documentation via **Markdown** to assist the end user, aswell as explanation the functionality of the project.

RELEVANT EXPERIENCE

DCU Insight Centre

Intern   *Jan 2024 - Mar 2024*

- Conducted research on how to implement a system to query mutiple different types of datastores and databases to solve a data orginasation and demand problem.
- Discussed with stakeholders to exchange perspectives on problems and solutions.
- Created and organised meeting minutes.

PROGRAMMING LANGUAGES & TOOLS

Languages: Python, C, Java, Go, SQL, Javascript, HTML, CSS

Tools: Git, Docker, Make, CI/CD

FRAMEWORKS

Django, FastAPI, React.js, Next.js, Pytest

AREAS OF INTEREST

Full-Stack Web Development, Software Engineering