

RAZVAN GOREA

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EDUCATION

DUBLIN CITY UNIVERSITY

B.Sc. IN COMPUTER SCIENCE

PROJECTS

Multi Agent Large Language Model Application

- Developed a full-stack system that queries multiple datastores at a centralized point using a multi agent retrieval augmentation generation workflow with **Python**, **LangGraph** and **Mistral**.
- Implemented **CI/CD pipeline** using **YAML** on **Gitlab** to build the frontend **React** application and run **Pytest unit tests**.
- Secured user data access through user access permissions and metadata.
- Built an intuitive chatbot interface with **Next.js** and **Fast API**, allowing users to query the **LangGraph** backend.
- Collaborated with a project partner in weekly **sprints** to delivery new features, bug fixes or documentation.
- Provided meaningful project updates and discussed potential bottlenecks with a project supervisor weekly (in-person and via Zoom).
- Containerized the project with **Docker**
- Managed version control with **Git**.

Weather & Outdoor Trails Application

- Developed a Google maps style **React** application with **React Leaflet** to display outdoor trails (hiking, walking and cycling) along with weather information for Ireland.
- Worked with a project partner to define and deliver functional requirements, specifications and features.
- Managed version control with **Git**.

University Management Application

- Built a **React** application allowing a user manage modules, cohorts, and students.
- Integrated multiple different types of **RESTFUL API** endpoints to support reading, writing and updating records.
- Managed version control with **Git**.

Pizza Ordering Application

- Created a **Django** application that allows users to create and customize pizzas, which are stored in an **SQLite** database.
- Implemented features for users to select from various toppings, crust types and sauces.
- Managed version control with **Git**.

Shell

- Developed a shell in **C**, capable of executing common linux commands.
- Implemented batch mode as well as background execution using forked processes.
- Created a **Makefile** to build the shell.
- Created supporting documentation via **Markdown** to assist end user.
- Managed version control with **Git**.

RELEVANT EXPERIENCE

DCU Insight Centre

Intern

Jan 2024 - Mar 2024

- Conducted research on implementing a system to query mutiple different types of datastores and databases to solve a data orginasion and demand challenges.
- Engaged with stakeholders to exchange perspectives on problems and potential solutions.
- Created and maintained meeting minutes, ensuring clear communication of key discussion points and action items.

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