

RAZVAN GOREA

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EXPERIENCE

DCU Insight Centre

Intern

Jan 2024 - Mar 2024

- Conducted research into designing a unified system for querying diverse datastores and databases to address data organization and demand forecasting challenges.
- Collaborated with stakeholders to gather requirements, identify key problems, and propose actionable solutions through regular discussions and feedback loops.
- Documented and maintained detailed meeting minutes to ensure alignment on objectives, action items, and key decisions across the team.

EDUCATION

DUBLIN CITY UNIVERSITY

B.Sc. IN COMPUTER SCIENCE

PROJECTS

Multi Agent Large Language Model Application

- Developed a full-stack multi-agent LLM system using **LangGraph**, **Mistral**, and **Pinecone** to query multiple datastores via a centralized retrieval-augmented generation (RAG) workflow.
- Built an intuitive chatbot interface using **Next.js** and **FastAPI**, allowing users to interact with LangGraph agents in real time.
- Implemented a **GitLab CI pipeline** (YAML) to build and test all system components.
- Achieved **85% test coverage** using **Jest** and **Pytest**, integrated into the CI pipeline.
- Secured **Pinecone** namespace access with user permission policies and metadata tagging to ensure safe and scoped access to vector indexes.
- Containerized the application using **Docker** for consistent development and deployment environments.
- Collaborated with a project partner in **weekly Agile sprints** to deliver new features, fix bugs, and refine documentation.
- Provided regular project updates and discussed potential bottlenecks with a supervisor via weekly **in-person and Zoom meetings**.
- Managed version control with **Git**.

Weather & Outdoor Trails Application

- Developed a **React Leaflet** web application to display walking, hiking, and cycling trails across Ireland alongside live weather data.
- Integrated external weather API to provide real-time weather updates.
- Collaborated with a project partner to define features and functional requirements based on user stories.
- Managed version control with **Git**.

University Management Application

- Built a **React** application that enables administrators to manage modules, cohorts, and student records through an intuitive UI.
- Integrated custom **RESTful API** endpoints to support full **CRUD** operations across different academic entities.
- Designed modular, reusable components to support scalable feature development.
- Managed version control with **Git**.

Pizza Ordering Application

- Created a **Django** application with an **SQLite** backend allowing users to customize and order pizzas with selectable toppings, sauces, and crust types.
- Designed form-based interactions and implemented model validations for robust order handling.
- Managed version control with **Git**.

Shell

- Developed a UNIX-style shell in **C** capable of executing common Linux commands in both batch and background modes via forked processes.
- Implemented command parsing, error handling, and I/O redirection.
- Automated build process using a custom **Makefile**.
- Wrote comprehensive end-user documentation in **Markdown**.
- Managed version control with **Git**.

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, Jest