Duc Vu

https://github.com/Duc-V |

EDUCATION

RMIT University   Melbourne, VIC

Bachelor of Computer Science

- Relevant Coursework: Operating system, Agile Software Development, iOS Application Development, Full Stack Web Development, .NET Web Development, Algorithms Design Techniques, Intro to Cybersecurity, Data Analysis
- Involvement: RMIT CSIT society member

PROJECTS

Pathfinding Algorithms Visualization (C++)

- Developed an intuitive and interactive tool to visualize Dijkstra and A star pathfinding algorithms
- Designed an object-oriented application utilizing the concepts of abstraction and polymorphism
- Implemented a user-friendly interface with the C++ SFML graphical library

Pokémon Dex (JavaScript, HTML, CSS)

- Developed a web application that allows users to explore detailed information about various Pokémon, including their attributes, evolutions, and types
- Handled the asynchronous Pokémon API incorporated with dynamic loading for smoother user experience

Weather Dashboard (React.js)

- Developed a comprehensive weather dashboard using React.js and the OpenWeather API. The application features a clean and intuitive interface created with Material-UI (MUI)
- Integrated with the Open Weather API to fetch and display current weather conditions, including temperature, humidity, wind speed, and more.

Operating System Scheduler (C++)

- Simulated Round Robin, FIFO, SJF operating system scheduling algorithms in C++
- Used quantum time to ensure round robin resource usage and prevent starvation
- Utilized priority queue to develop SJF algorithms

EXPERIENCE

Sohum Yog Therapy Music   RMIT University - 2024

Backend Developer

- Implemented Mediator Pattern to manage complex communication between system components
- Developed robust and high-performance applications using the .NET framework
- Designed and implemented message-driven architectures using MassTransit and RabbitMQ enhancing system reliability and decoupling

- Integrated AWS Cognito and DynamoDB for scalable user authentication and flexible NoSQL database solution for high-performance applications

SKILLS

- Java, C++, Python, JavaScript, Express, Node.js, Git, Object Oriented Programming, React, .NET