CECILIA CHEN

ceciliachen.dev@gmail.com | 0491166950 | 128 Waymouth St., Adelaide
www.ceciliachen.dev

SUMMARY

Final-year Computer Science student with hands-on experience in Full Stack Development and skills in Machine Learning Operations. Currently seeking an internship to apply my skills and continue learning in a challenging, innovative environment. Based in Adelaide, open to remote opportunities.

EDUCATION

Master of Computing and Innovation   **The University of Adelaide**
- Major in Computer Science   Jul 2023 - Jul 2025

PROJECTS

Responsive Multi-Page Portfolio with Next.js   **Feb 2024 - Apr 2024**

Developed a dynamic and visually engaging multi-page portfolio website using **React.js**, **Next.js**, and **Tailwind CSS**, ensuring a responsive and user-friendly experience.

- **Responsive Design:** Achieved uniform responsiveness across all devices with Tailwind CSS and enhanced user transitions using Framer Motion.
- **Custom Components:** Developed dynamic, reusable components including a Navbar, Footer, and Animated Text Component, streamlining the user interface and interaction.
- **Dark and Light Mode:** Integrated dynamic switching between modes using prefers-color-scheme and Hooks, enhancing user preference compatibility.
- **Design Enhancements:** Utilized Next.js built-in capabilities for image optimization to enhance site loading times and performance, while integrating custom Google Fonts to enhance typography consistency.
- **Deployment:** Deployed the portfolio website on Vercel, ensuring scalable, efficient delivery with automatic builds and optimized performance.

Social Media Platform for Location Check-ins   **May 2024 - Jul 2024**

Developed a dedicated platform for users to share and explore location-based experiences, built using **the MERN stack (MongoDB, Express, React, Node.js)**.

- **React.js Frontend:** Focused on component-based architecture and efficient state handling. Implemented comprehensive user input validation to maintain data integrity.
- **Node.js + Express + MongoDB Backend:** Engineered RESTful APIs for dynamic data interactions and integrated MongoDB to store user and location data securely. Implemented rigorous back-end validation protocols.
- **API Testing:** Utilized Postman to thoroughly test and validate API endpoints.
- **File Upload:** Enabled multimedia upload capabilities, allowing users to enhance their location check-ins with images.
- **Authentication and Authorization:** Designed and implemented security features for user authentication and authorization to protect personal information and enhance user privacy.

Machine Learning Course Projects   **Feb 2024 - Jun 2024**

Developed and evaluated machine learning models for classification, time series forecasting, and recommendation systems, gaining hands-on experience in model selection, tuning, and cross-validation.

- **Recommendation System:** Led a team to design a recommendation system, applying collaborative filtering and hybrid methods. Worked to mitigate challenges like data sparsity while striving to improve model accuracy.
- **Time Series Forecasting:** Implemented ARIMA and LSTM models to forecast time series data, focusing on model tuning and handling complex dependencies.

SKILLS

Full-Stack Development
- **Front-end:** Next.js, React.js
- **Back-end:** Node.js, Javascript, RESTful APIs
- **Database:** MangoDB

MLOps:
- **Techs:** Python, Sklearn, Pandas, Matplotlib

Others:
- Jira, Git