Nirav Pandey

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EDUCATION

University of Melbourne   Melbourne, VIC
Bachelor of Science in Data Science   *Feb 2024 – Present*

EXPERIENCE

Section Leader   Apr 2025 – Present
Stanford University: Code in Place

- Instruction: Taught Stanford's CS106A course (Programming Methodology) to a section of 15 students, delivering lessons and leading coding exercises in Python.
- Technical Mentorship: Strengthened students' problem-solving and debugging skills by providing guidance during assignments and collaborative coding sessions.
- Leadership and Teamwork: Fostered an inclusive and supportive environment, developing leadership, presenting, and group facilitation skills through weekly discussions.

PROJECTS

Portfolio Website | *React, Supabase, GitHub Pages*   Jan 2025

- Built a personal portfolio website using React, showcasing my tutoring business and technical skills with an interactive, user-friendly interface.
- Leveraged Supabase as a backend to securely store user information and messages, allowing for personalized interactions and data management.
- Deployed and hosted the website on GitHub Pages, ensuring easy access and smooth updates with version control.
- Designed the site to highlight my technical expertise, tutoring services, and projects, helping potential clients and employers better understand my skills.

Ramble | *React, Flask, Claude 3 Opus LLM, Docker, Git*   2024

- Developed Ramble, a web application that converts user-generated text into a structured, optimized daily schedule using Claude 3 Opus LLM for natural language processing.
- Collaborated in a team of three to build and deploy the app as part of the CISSA Codebrew Hackathon 2024, winning Best First Years.
- Integrated React for the frontend to provide a responsive, user-friendly interface, and Flask as the backend to handle API requests and data processing.
- Leveraged Docker to containerize the app, simplifying deployment and ensuring cross-platform compatibility for development and production environments.
- Utilized Anthropic's Claude 3 Opus LLM API to extract relevant tasks from user prompts, automating schedule creation with ideal start and end times, regardless of how the input is structured.

TECHNICAL SKILLS

Languages: Python, R, C/C++, SQL (mySQL), JavaScript, HTML/CSS
Frameworks: React, Flask, WordPress, FastAPI
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, PyCharm, Supabase
Libraries: pandas, NumPy, Matplotlib, scikit-learn,