Adelaide, SA, Australia

github.com/ManavBijlani21
linkedin.com/in/manavbijlani

MANAV BIJLANI

+61 475 079 765 | manav.bijlani@outlook.com | Personal Portfolio

Education

The University of Adelaide Adelaide, Australia Feb 2023 - Dec 2025
Bachelor of Computer Science, GPA: 6.4/7
(Active member of Computer Science Club and Competitive Programming Club)

Work Experience

Full Stack Developer Intern – Mira (React.js, Next.js, Node.js, Express.js, Supabase) Nov 2024 – Jan 2025

- Designed Mira's frontend by developing a robust calendar component with features such as dynamic event management, and interactive modal dialogs, improving user experience and workflow efficiency.
- Orchestrated the backend development and database management using Node.js, Express.js and Supabase to build high-performance RESTful APIs.
- Spearheaded technology discussions, contributing to wireframe design, authentication strategy, and scalable deployment solutions, ensuring a seamless and secure infrastructure.

Software Engineer Intern - Marsupium Financial Services (Python, C#, Unity, Firebase, GCP) Aug 2024 – Nov 2024

- Led the development of an AI-driven financial model by analyzing large datasets, achieving over 90% accuracy in predicting user spending patterns, delivering personalized notifications to assist users with effective budgeting.
- Collaborated closely with international teams to elicit requirements, propose innovative ideas, and ensure timely model delivery through Agile weekly sprint reviews and Jira-based task management.
- Deployed AI model on Google Cloud Platform (GCP), leveraging cloud computing for scalability.

Research Intern - Australian Institute of Machine Learning (Python, Typescript, HTML, CSS5) Nov 2023 – Aug 2024

- Developed a scalable and customizable Language Learning Model application in collaboration with a PhD professor, leveraging research on Retrieval Augmented Generation (RAG) to enhance model capabilities.
- Improved system performance by 85% by optimizing document upload processes and implementing a configurable file system, reducing backend running time and directly enhancing user experience.

Projects

Real Estate Price Prediction Website (Python, Flask, AWS, Insomnia, Javascript) Feb 2025 – Mar 2025

- Developed and trained a ML model using Scikit-learn and linear regression to predict home prices, achieving an accuracy of 82%. Deployed the model on AWS for scalable real-time predictions.
- Implemented a Python Flask server to serve predictions via HTTP requests, demonstrating key concepts such as data cleaning, outlier removal, feature engineering and dimensionality reduction.

Onboarding Assistant - Atlassian Forge Hackathon 2025 (Atlassian Forge, Jira, Confluence, Javascript) Feb 2025

- Spearheaded the development of an AI-powered onboarding assistant, integrating an AI Agent within Jira.
- Enhanced new hire onboarding efficiency through intelligent search, task prioritization, and automated Confluence summariser.

GreenAgenda (HTML, CSS5, Javascript, Vue.js, Express.js, Node.js, MySQL, Botpress) Dec 2024 – Jan 2025

- Led the full-stack development of a web platform to promote afforestation and environmental conservation.
- Designed a responsive UI using HTML, CSS, JavaScript, Vue.js and MySQL for the backend.
- Created and integrated a chatbot using botpress to answer user queries, provide information about upcoming events.

TetrisX (C++, CMake, Raylib) Oct 2023

- Spearheaded a team of four to create a puzzle game with three modes, including Zen Mode and Time Attack.
- Applied OOP principles and used the raylib library for dynamic block manipulation and visualization.

Skills

Proficient : Python and C++ Familiar : HTML, CSS, JavaScript, C#, MySQL, Unity, GCP, Firebase, React.js, Node.js

Community Involvement

- **National Competitive Programming Contest** Feb 2024
  - Ranked 15th in a national programming competition, involving complex data structures and algorithms.
- **Adelaide Uni MedTech Hackathon** Aug 2023
  - Collaborated with a team of four to develop an AI system addressing plastic waste in healthcare.