

Adelaide, SA, Australia

**MANAV BIJLANI**

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## 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 15<sup>th</sup> 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.