

RAHUL MARKASSERITHODI

(+61) 0432278341, rahul4nair35@gmail.com, [Linkedin](#), [GitHub](#), [Gitlab](#), [Portfolio Website](#)

SUMMARY

- Software engineering student at UNSW with a passion for Machine Learning, Cybersecurity and Business analytics
- Currently in penultimate year of Undergraduate degree
- Excited to be seeking for an opportunity to grow expertise in Artificial Intelligence and Management

EDUCATION

Bachelor of Engineering, Software Engineering (Hons) Expected Graduation - Nov 2025
University of New South Wales

- Transferred from ICAS, Manipal to UNSW IN 2023
- Courses: Computer Networks, Software Engineering fundamentals, Artificial Intelligence, Functional programming

Bachelor of Science (Applied Sciences), Computer Science May 2021 - May 2023
International Centre of Applied Sciences Manipal

- Courses: Data Structures and Algorithms, Object oriented programming, Database management, Machine Learning, Operating Systems, Computer Architecture

EXPERIENCE

Front End Web Developer Intern July 2022 - August 2022

CODEUNITY TECH

- Led the development of web application implementing React Native framework
- Designed and implemented responsive webpages using HTML, CSS and JavaScript
- Assessed user needs to determine technical requirements, updating features over 2 iterations
- Upheld coding standards for all development projects undertaken
- Proposed further possible development plans and documented the progress

Software Engineering Fellow July 2024 - September 2024

HEADSTARTER AI

- Created 5 AI Based projects in the span of 5 weeks learning new skills each week
- Networked with fellow interns and founders of multiple startups
- Gained hands-on experience using AWS, Firebase, NextJS and integrating OpenAI API and RAG

PROJECTS

TOOHAK API April 2024 - July 2024

TypeScript, Gitlab, Vercel, Postman, Swagger, Jest

- Developed the backend for the quiz software Kahoot in the UNSW course COMP1531 achieving 95% grade in the same

HARMONY AI August 2024

NextJS, Material UI, OpenAI, AWS EC2

- Developed an emotion-driven AI chatbot that uses sentiment analysis for music recommendation
- Integrated a seamless UI with smooth transitions between pages for a polished, responsive design.

PANTRY MANAGEMENT SYSTEM August 2024

NextJS, Firebase, Material UI, OpenAI

- Developed a web application that integrates OpenAI API with Firebase, enabling users to check inventory stock and also generate personalized recipes based on it
- Implemented a seamless user interface using React and Material-UI, enhancing user experience

REDBACK AUTONOMOUS RACING September 2023 - November 2023

Arduino IDE

- Engineered an autonomous vehicle capable of navigating a track autonomously, involving extensive design, testing, and refinement phases over 8 weeks in collaboration with a team of 6

FOOTBALL MATCH PREDICTOR March 2023

Python, Machine Learning

- Predicted Premier League game outcomes using a Machine Learning algorithm with an 85% accuracy rate, considering multiple features from datasets

LEADERSHIP & ACTIVITIES

Operations Director

December 2023 - Present

FASHION AND BEAUTY SOCIETY UNSW

- Coordinated with fellow directors and trained subcommittee in overseeing 10+ on- campus events from initial conception and strategic planning to execution and completion, resulting in 50% increase in event participation

Web Developer

September 2022 - June 2023

ENIGMA TECHNICAL SOCIETY

- Developed and maintained the university website for web and mobile platforms, training 10 task phase members to achieve necessary skills for the team

SKILLS & INTERESTS

Technical: Python, C, Java, Haskell, SQL, HTML, CSS, JavaScript, Shell, ReactJS, NodeJS, Typescript

Tools: Git, Github, Gitlab, Wireshark, Figma, Adobe, Canva, Jira, Confluence, Arduino, Jupyter

Operating Systems: Unix/Linux, Windows

Language: English, Hindi, Malayalam, Telugu, Tamil

Interests: Music production, Public Speaking, Fashion, Dance, Football, Weightlifting

Soft Skills: Analytical Thinking, Problem-Solving, Strategic Thinking, Written and Verbal Communication, Performance Improvement