

ANANYA JAIN

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EDUCATION

National University of Singapore

Aug 2024 - May 2028

- **Major:** Bachelor of Computing in Computer Science
- **GPA:** 4.67/5.00 (First Class Honours)
- **Minor:** Entrepreneurship
- **Awards:** Science and Technology Undergraduate Scholarship, Odyssey (Summer AI Research Programme)

SKILLS

Languages: Java, Javascript, Typescript, Python, SQL, HTML, CSS

Frameworks: React, Flask, Node.js, Express.js, React Native, TailwindCSS, Vue.js, Expo

Tools: Appwrite, MongoDB, Git,

Software: Figma, Android Studio, Xcode, Blender, Microsoft Office, Canva

EMPLOYMENT & RELEVANT EXPERIENCE

AI Research Intern, Edpulse (subsidiary of XSEED Education)

June 2025 - Aug 2025

- Built a production-ready chatbot with Ollama LLMs and streamlit using prompt engineering to refine AI conversation flow, boosting user satisfaction and interaction retention.
- Developed a RAG system with LangChain and ChromaDB for generating accurate, domain specific responses, with a synthetic data generation pipeline for LLM fine-tuning to further improve relevance
- Tech Stack: Python, LangChain, Streamlit, Ollama, ChromaDB, OpenAI API, Git

Software Development Intern, XSEED Education, Singapore

July 2023 - Aug 2023

- Developed and maintained features for web applications using Node.js, and Vue.js, resolving critical bugs to enhance user experience and system reliability
- Managed and resolved assigned Jira tickets while contributing in daily standups and weekly sprints, and code reviews within an agile environment.
- Tech Stack: Javascript, Node.js, Vue.js, Google Cloud Platform, Git

PROJECTS

Full Stack Mobile App: Wavelength

- Designed and developed a full-stack, cross platform co-living management for iOS and Android using React Native and TailwindCSS, creating intuitive UI/UX for roommate collaboration and tracking
- Built secure authentication and real-time database syncing with Appwrite backend, leveraging TanStack Query for efficient queries to minimize reads/writes, enhancing app performance
- **Tech Stack:** Javascript, React Native, TailwindCSS, TanStack, Appwrite

Maritime Hackathon: Machine Learning

- Developed an end-to-end ML classification pipeline for maritime risk detection, including data cleaning, labeling, annotation, and automated preprocessing, enabling scalable and reproducible model training.
- Engineered features and implemented ensemble models (stacking, boosting) using scikit-learn, improving classification accuracy over baselines and validated performance with precision, recall, and F1-score
- **Tech Stack:** Python, scikit-learn, pandas, NumPy, Matplotlib, Jupyter Notebook

Computer Vision Project

- Built a computer vision-powered mobile app using React Native and Expo, to simplify and automate receipt recording for users through an intuitive interface and robust PostgreSQL database
- Used Google Cloud Vision API for Optical Character Recognition to extract text from receipts and integrated OpenAI API to analyze and classify purchase categories.
- **Tech Stack:** OpenAI API, Google Cloud Vision, React Native, Expo, PostgresSQL, Javascript

CO-CURRICULAR ACTIVITIES:

Project Member, Women in Tech @ NUS Computing

Sept 2024 - Present

Led a female peer-support group of 6-7 members, organising sessions on leadership, goal-setting, teamwork and created membership opportunities to build a collaborative community