

Patrick Thomas

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EDUCATION

National University of Singapore

Aug 2023 – Aug 2027

Bachelor of Computing, Major in Computer Science

GPA: 4.39

Relevant Coursework

- Data Structures and Algorithms, Software Engineering, Database Systems, Artificial Intelligence, Discrete Mathematics, Computer Networks

WORK EXPERIENCE

SWE Intern

Jan 2026 – Jun 2026

Hypotenuse.AI (YC20)

Developing and scaling full-stack AI-powered Enterprise WebApp

- Developing full-stack Enterprise WebApp for Product Information Management(PIM) for a YC-backed startup.
- Collaborated closely with cross-functional teams including product managers, designers, and fellow engineers to deliver high-quality features in an Agile environment.
- Iterated on and developed new product features to address product market fit, driving higher engagement and retention.

SWE Intern

Aug 2025 – Dec 2025

Snowball

Developing full-stack social media application

- Developing full-stack social media application powered by Expo-Go and React-native.
- Developed and implemented test suites for components to ensure robustness and reliability.
- Implemented various features based on user feedback for an active user base of over 800 pax.

SWE/AI Engineer Intern

May 2025 – Aug 2025

MorpheusLabs

Developing AI-based solutions for clients

- Developed Agentic AI agents for smart contract generation and deployment.
- Built full-stack web application utilising LLM-powered image generation and retrieval-augmented generation for social media content.

Machine Learning Research Intern

Feb 2025 – May 2025

*A*STAR BioInformatics Institute*

Exploring applications of LLMs in healthcare

- Studying the potential applications of Large Language Models(LLMs) within the realm of healthcare.
- Leveraged different techniques such as prompt engineering, retrieval-augmented generation and concept recognition to improve the accuracy of LLM-based algorithm to determine a list of possible diseases against training data.
- Explored the use of Agentic AI to automate the validation processes of the pipeline and further improve accuracy.

PROJECTS

MeetWhenAh | Full-Stack Telegram Bot with WebApp and Database Backend

Aug 2025 – Present

Skills: React, Next.js, FastAPI, SupaBase, SQL, TypeScript, TailwindCSS

- **Full-Stack Development:** Developed a full-stack webapp to assist Telegram users with scheduling meetings and events.
- **Integrated SQL Database:** Utilised Supabase's integrated SQL database for managing users, events and notifications.
- **Backend Framework:** Utilised FastAPI to host server endpoints for scalability.
- **Telegram API Integration:** Integrated Telegram API for seamless communication and interaction with users.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, TypeScript, HTML/CSS, R

Frameworks: React, Expo, React-Native, Next.js, Express.js, Flask, FastAPI, SupaBase, FireBase

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse