JUSTIN LIM CHONG HWEI

HP: 90022040 Email: justinlim60@gmail.com LinkedIn: www.linkedin.com/in/justinlim60

EDUCATION

National University of Singapore **May 2026**
Bachelor of Computing in Computer Science

- Relevant coursework: Software Engineering, Data Structures and Algorithms, Computer Networks, Wireless Networking, AI and Machine Learning

SKILLS

- Languages: JavaScript | TypeScript | HTML | CSS | Python | Java | C# | C
- Frameworks: React | NextJS 14 | ASP.NET Core Web API | Flask | LangChain
- Databases: MongoDB | PostgreSQL | Firestore | Pinecone

WORK EXPERIENCE

Full Stack Software Engineer Intern, 10:10 Media Production **Jun 2024 - Dec 2024**

- Architected a complete e-commerce and learning management platform, migrating from Express on Render to ASP.NET Core on Azure, establishing an enterprise-grade infrastructure with automatic scaling capabilities
- Led a team of 5 part-time developers through weekly sprints and code reviews, coordinating development and system design, resulting in successful deployment of the MVP in 3 months
- Designed and implemented a comprehensive RESTful API with MongoDB and AWS S3 integration, optimizing image delivery and creating a modular MVC architecture that improved maintainability and scalability
- Developed admin, teacher, and user portals using Next.js 14 and React, implementing server-side rendering and role-based JWT authentication that enhanced security and user experience

PROJECTS

Gen AI-Powered Tutoring System **Jul 2024**

- Boosted learning outcomes for 92% of students by devising advanced features for indexing course materials, performing semantic search, and generating personalized tutoring responses
- Architected a comprehensive tutoring system using FastAPI, Pinecone vector database, and Google's Generative AI through LangChain for a Learning Management System
- Incorporated Retrieval-Augmented Generation (RAG) architecture to enhance AI responses with contextual information from course materials

AngelHack Hackathon **May 2024**

- Built in 24 hours, a full stack Flask-based web application for retirement risk calculation
- Formulated financial algorithms for comprehensive retirement adequacy scoring
- Implemented secure user authentication using Firebase and Firestore for database

Orbital: Canvaid **Jun 2023 - Aug 2023**

- Created Canvaid, a website enhancing quiz functionality for NUS courses integrated with Canvas API
- Achieved 95% user satisfaction by innovating a custom exam mode allowing users to combine multiple quizzes
- Improved user preference rate by 84% over standard Canvas quiz interface by leveraging Next.js and React for front-end development
- Bolstered collaboration and version control efficiency by implementing Git workflow in a team of 2