David Chan

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EDUCATION

National University of Singapore, School of Computing — Singapore
Bachelor of Science in Business Analytics — *Aug. 2023 – May 2027*
- GPA: 4.63 (First Class Honours)
- Certified Artemis Extreme Difficulty (top 4% of ~200 teams) for CP2106 Independent Software Development Project
- Won Best Polyglot Hack at NUS Hack&Roll 2025 among ~400 participants
- Achieved Finalist (top 5 of 88 teams) at NUS Fintech Summit Hackathon 2025

EXPERIENCE

Software Engineer Intern — June 2025 – Present
Synapxe — *Singapore*
- Full-stack development of advanced healthcare system integrated with computer vision and generative AI, hosted on AWS cloud services

Undergraduate Teaching Assistant — Aug. 2024 – Aug. 2025
NUS Computing — *Singapore*
- CP2106 Independent Software Development Project: Advising and evaluating ~30 undergraduates on their 3-month software development project for NUS Orbital Programme
- BT2102 Data Management & Visualisation: Conducted tutorials on database design to ~30 undergraduates

Data Analyst Intern — May 2024 – Aug. 2024
China CITIC Bank International — *Singapore*
- Lead design and development of a comprehensive risk analysis tools, strengthening risk management strategies and speeding up processes by ~150% for risk department
- Overhauled department's data management strategy to a more robust and scalable system, optimising usability by ~80% for risk department

PROJECTS

CoconutSplit | *Python, FastAPI, React, PostgreSQL, Docker* — Oct. 2024 – Present
- Developed an expense management Telegram Bot via FastAPI webhook integrated with a full-stack React app
- Gained ~1,600 active users, facilitating ~9,000 transactions worth SGD ~1.3 million as of Aug 2025
- Self-hosted on two Unraid servers load-balanced by HAProxy for automatic fail-over and traffic-splitting

SmartPantry | *React Native, Pinecone, OpenAI, LlamaIndex, Expo Go* — Jan. 2025 – Feb. 2025
- Developed a mobile app that leverages Retrieval-Augmented Generation (RAG) with LlamaIndex for context retrieval and Pinecone as a vector store to deliver personalised AI-driven meal plan recommendations
- Used Docker and Heroku for cloud deployment

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript, HTML/CSS, R, VBA
Frameworks: React, React Native, Node.js, Next.js, Vue.js, AngularJS, Flask, FastAPI, Tailwind CSS
Developer Tools: Git, Docker, Nginx, HAProxy, Firebase, Supabase, MongoDB, PostgreSQL, Redis, Heroku
Libraries: pandas, NumPy, Matplotlib, SciPy, seaborn

CO-CURRICULAR ACTIVITIES

lvl8studios | *Software Development Group* — Apr. 2025 – Present
- Co-founded a software development group with an agile team of 9 developers to deliver software projects
- Conduct and led bi-weekly stand-ups, delegating and overseeing tasks for sprint planning, development and marketing for on-time delivery and ~99% uptime

Tembusu College | *University Town College Programme* — Aug. 2023 – Present
- Represented college as Team B Captain in the 2024 and 2025 Inter-College Games, Ultimate Frisbee
- Led undergraduate research project with Dr Connor Graham exploring the optimisation, verification and limitations of multi-agent AI outputs for automated hybrid human-machine qualitative analysis at scale