

Jiayang Shang (Dylan)

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SUMMARY

Full-stack engineer in Sydney working across PHP/Laravel, React, Vue, Next.js, Node.js and AWS, with a growing focus on AI developer tooling. UNSW Master of IT (Excellent graduate).

EDUCATION

University of New South Wales

Master of Information Technology (Excellent graduate)

Core Courses: Data Structures & Algorithms (HD), Database Systems (HD), Computer Networks (HD), Software Construction (HD)

Sydney, Australia

Feb. 2023 – Sep. 2024

Jiangsu University of Technology

Bachelor of Internet of Things

Core Courses: Digital/Analog circuits, Mobile application development, Short-distance wireless technology, Embedded software development, Microprocessor Application, etc.

Jiangsu, China

Sep. 2018 – Jun. 2022

TECHNICAL SKILLS

Programming Languages: Python, C/C++, C#, SQL, JavaScript, TypeScript, PHP, Shell

Frontend Frameworks & Styling: React, Vue, Next.js, Tailwind, HTML, CSS

Backend Frameworks: Node.js, Express.js, Flask, FastAPI, Laravel, Django

APIs & Testing: GraphQL, REST, Jest, Cypress

Libraries & Tools: OpenCV, Selenium, QT, WebAssembly, Jira

Cloud & DevOps: AWS, Docker, CI/CD, Git, Google Cloud Platform, Azure

EXPERIENCE

Full Stack Software Engineer

Golden Matrix Group Inc.

Apr. 2025 – Present

Sydney, NSW, Australia

- Build and maintain an online gaming platform serving 500K+ users: a Laravel/PHP backend, Next.js and Vue web apps, and a React Native (Expo) mobile app, on Redis, MySQL, Docker and CI/CD.
- Built a back-office reporting dashboard (Vue, Chart.js) that replaced manual data exports and let the finance and marketing teams pull live KPI reports themselves.
- Migrated clustered services from self-managed servers to AWS ECS, cutting infrastructure cost by about 30% and deploy time from ~20 to ~4 minutes.
- Integrated payment providers (Checkout.com, Google Pay, PayPal, Revolut) handling ~5K payments/day (10K+ at peak), plus Braze for customer messaging.
- Work cross-functionally with product, design and QA in an Agile team (sprint planning, code reviews, CI/CD).

Software Engineer

Aquion Pty Ltd · Internship

Mar. 2025 – Apr. 2025

Sydney, New South Wales, Australia

- Built AI-assisted internal tools with Laravel, Vue.js, MySQL, Docker, the OpenAI API and CI/CD.
- Built a vendor portal for reviewing 6,500+ vendors and products, integrated with the ERP for live data.
- Extended a custom CRM and data lake to capture customer data and feed the internal quoting system.
- Integrated OpenAI to classify vendors, find their website URLs, and update information in the CRM system.

Software Engineer

Youzhi Automation Technology · Internship

Dec. 2021 – Jun. 2022

Jiangsu, China

- Developed industrial machine-vision software with C++, C#, OpenCV and Qt.
- Implemented and optimised vision algorithms and improved the software's interactivity.
- Benchmarked system performance, evaluating metrics and analysing results.

RESEARCH EXPERIENCE

Research Student — Data & Knowledge Research Group

Feb. 2024 – Dec. 2024

University of New South Wales, supervised by Dr. Zhengyi Yang

Sydney, Australia

- Designed and built **Kùzu-Wasm**, the first public graph database compiled to WebAssembly, so graph queries (Cypher) run directly in the browser.
- Collaborated with **Alibaba's GraphScope** team and shipped the integration into their portal product.
- Work accepted by the UNSW Data & Knowledge Research Group; thesis published Aug. 2024.

SELECTED PROJECTS

SuperFlux [Link] | *Next.js, TypeScript, Prisma, PostgreSQL, Claude/LLM*

2025 – Present

- Linear/Jira-style issue tracker built end-to-end with Claude Code; in daily production use by an engineering team.
- Wires Claude Code and GitLab into one workflow — AI runs branch operations, commits, and merge requests from inside an issue.
- Built a per-issue/per-user AI cost dashboard (model and trigger breakdown) so the team budgets Claude spend like infrastructure spend.

Campus Guide Program [Link] | *PHP, Python, MySQL, React*

Jul. 2018 – Present

- Built a WeChat program with React which provides campus guide including encyclopedia, news, personal class schedule, and learning materials for all staff and students
- Implemented Restful API interface with Laravel framework and used Python to collect course information
- The program has been maintained since 2018, and the number of users is over 10,000

PUBLICATIONS

Pine Script v5 User Manual Chinese Version: Script Manual for TradingView, published on Feb. 2022 on GitHub [Github] [Online Book]

Kùzu-Wasm: High-performance In-browser Graph Analysis: Under the supervision of Dr. Zhengyi Yang and published on Aug. 2024 during the research program at UNSW [Link]