RYAN CHENG

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EDUCATION

Singapore Management University (SMU)   **Singapore**
Bachelor of Science (Information Systems – Financial Technology & Business Analytics   **2023 – 2027**
- Dean's List AY24/25

Relevant distinctions
- IS211 Interaction Design Prototyping (UI/UX, Figma, Product Development)
- IS216 Web Development 2 (Full stack Development)
- IS215 Digital Business – Technology and Transformation (Business Model Analysis & Transformation)
- IS213 Enterprise Solution Development (Backend development)
- IS214 Enterprise Solution Management (Support Management, DevOps)
- ACCT101 Financial Accounting (Accounting Fundamentals)

EXPERIENCE

JJ Food Express   **Singapore**
Software Engineer Intern   **May 2025 – Aug 2025**
- Designed and developed a full-stack web application using Vue.js, JavaScript, Firebase, and HTML/CSS to streamline order operations between food outlets and a central kitchen.
- Developed and implemented key features including product management, automated invoice generation, and order tracking, cutting process times by 50%.
- Conducted user interviews with staff to gather requirements, independently designed the system architecture, and deployed the application on Vercel.
- Successfully launched the web application, which is actively used by 30+ outlets daily to place and manage orders.

SMU SCIS Student Body (Ellipsis)   **SMU**
Welfare Executive   **2024 - 2025**
- Led organization of semester welfare drives benefiting SCIS students, including exam care packages and daily necessity distributions.
- Managed logistics and coordination of multiple student welfare initiatives throughout academic year.

ACADEMIC PROJECTS

- **Fixit App:** Conducted real-life user interviews to identify pain points in hiring handyman services in Singapore. Developed low- and high-fidelity prototypes and delivered a functional Figma wireframe, refining UX through iterative feedback loops.
- **Skills Up Microservice Platform**: Built a course application for foreign workers using Flask-based microservices deployed on Docker. Designed and integrated REST APIs for course registration, modular service communication, and scalable backend architecture.
- **Odoo Cloud Deployment Project**: Managed and deployed an Odoo ERP instance on Microsoft Azure using Docker and Kubernetes to enable horizontal scaling. Oversaw cloud configuration, container orchestration, and ensured high availability of the application.

SKILLS AND PROFICIENCY

- Languages: Proficient in Python, SQL, Typescript, JavaScript, HTML/CSS, Solidity.
- Frameworks: Vue.js, React, Bootstrap, Flask, Next.js, Supabase, Firebase, MongoDB, Fast API.
- Concepts: RESTful APIs, AMQP, Microservices, DevOps framework, API Gateway (Kong).
- Cloud & DevOps: Docker, Microsoft Azure, Kubernetes, CI/CD workflows.
- Developer Tools: Git, VS Code, Figma, Jira, Google Cloud Platforms.
- Data Science & Visualization: Pandas, Tableau, Excel, Power BI.