THADDEUS LEE

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EDUCATION

Carnegie Mellon University   **Pittsburgh, PA**
Master of Software Engineering - Scalable Systems, GPA: 4.0/4.0   May 2024 – Dec 2025
- Relevant Courses: Intro to Computer Systems, Distributed Systems, Database Systems

Singapore Management University   **Singapore**
Bachelor of Science in Information Systems, GPA: 4.0/4.0   Aug 2021 – May 2024

EXPERIENCE

Software Engineer Intern – Courier   San Francisco, CA | May 2025 – Present
- Building backend with Node.js for Courier Inbox, a real-time in-app notification system for web and mobile applications

Software Engineer Intern – Bazaarvoice   Singapore | May 2024 – Aug 2024
- Developed REST APIs to support rapid expansion of social commerce tools, handling cross-solution user migration and product data aggregation with **Express**, and **MongoDB** with **Mongoose**
- Integrated existing APIs into Bazaarvoice's solutions by developing a **Scala**-based API gateway to perform request validation, data type mapping, response transformation and error handling

Software Engineer Intern – Ryde Technologies   Singapore | Jan 2024 – Apr 2024
- Reduced average driver onboarding time by 30% by independently developing a **Go** microservice for Document AI tasks
- Minimized future development and maintenance costs by migrating native mobile applications to **Flutter**
- Optimized and reduced build time of internal **React** application by 50% through migrating to **Vite** and code refactoring

Software Engineer Intern – Koru Partners   Singapore | May 2023 – Aug 2023
- Streamlined fund operations' processes by highlighting discrepancies on **Django** during the reconciliation process
- Improved human resources' recruitment workflow by automating project management task generation with **Python**

Software Engineer Intern – Just Dabao   Singapore | Jul 2022 – Nov 2022
- Refined existing product filter and map features, implemented dark mode, and fixed bugs on **Flutter** mobile application

SKILLS

Languages: Python, Java, Golang, TypeScript, Dart, SQL, HTML, CSS, PHP
Frameworks/Tools: React, Next.js, Vue.js, Express, FastAPI, Springboot, Flutter, React Native, Docker
Certifications: AWS Certified Solutions Architect - Associate

PROJECTS

Social Network App   Personal Project | Oct 2024 - Oct 2024
- Developed a social network application using a microservices architecture built with **Golang** and **Docker Compose**
- Reduced inter-service communication using **gRPC** endpoints that are exposed as RESTful APIs for clients through **Kong**
- Ensured high performance and responsiveness using **Redis** to pre-fetch and cache feeds, **Neo4j** graph database for efficient retrieval of follower-following relationships, and **Kafka** for asynchronous updates and publishing notifications

Surplus Meals Sharing Platform   Singapore Management University | Feb 2023 - May 2023
- Developed a **Flutter** mobile application that provides a platform to share and reserve leftover buffet food
- Built a backend on microservices architecture using **Docker** and **Kubernetes** for container orchestration
- Utilized **Kong Gateway** for rate-limiting, load balancing, **RabbitMQ** for messaging, and **Redis** for caching and distributed locks
- Awarded the *VMWare Tanzu Award 2023* for Best in Cohort in SMU Enterprise Development project

Multiplayer Game Clone   Personal Project | Aug 2023 - Nov 2023
- Built an adaptation of the party game 'True Colors' using **Springboot** and **WebSocket** for real-time multiplayer gameplay
- Designed a mobile-friendly, responsive frontend with **ChakraUI** and **NextJS**, featuring an automated deployment pipeline

AWARDS

Dell InnovateFest 2023: *Runner-up* in a two-month hackathon to develop innovative solutions improving accessibility for persons with intellectual disabilities, in collaboration with Movement for the Intellectually Disabled of Singapore.

Singapore Airlines AppChallenge 2023: *2nd place* out of 287 teams in a hackathon focused on revolutionizing air travel. Developed a Generative AI Chatbot to improve end-to-end customer experience and facilitate cross-selling.

Scholarships: Recipient of the full-ride Infocomm Media Development Authority (IMDA) Singapore Digital *Postgraduate* Scholarship and the full-ride Singapore Management University (SMU) Global Impact *Undergraduate* Scholarship