

# Zane Chee

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## Education

### Singapore Management University

Aug 2023 – exp. Apr 2027

BSc Computer Science | Software Systems

- **GPA:** 3.99/4.00
- **Research:** Singapore-MIT Alliance for Research & Technology, Mendaki
- **Awards:** Global Impact Scholarship, Dean's List (all AYs)
- **Teaching:** Programming Fundamentals I & II

### Exeter College, Oxford University

Jun 2024 – Aug 2024

Exeter College Summer Program

- **Coursework:** Numerical Algorithms for Linear Algebra, Optimization, & Deep Learning

## Experience

### Backend Engineer Intern, SEA Group

Jan 2026 - Present

- Optimised OKR Agent workflow average response time from **10s to 2s**, using callbacks & context compaction

### Software Engineer, Hypotenuse AI (YC 20)

May 2025 - Nov 2025

- Reduced per-asset load time from **300ms to 10ms**, through on-event AWS Lambda image thumbnail generation
- Decreased CSV import time from **3h to 2min** for over 5000 products using parallel Celery workers & RabbitMQ
- Improved product database search latency from **20s to under 400ms** with Redis caching & reduced table joins
- Sped up PostgreSQL queries on JSONB product metadata from **10s to 200ms**, through GIN & GIST indexes

### Lead Developer & Co-Founder, Vinesweeper

May 2024 - May 2025

- Delivered e-commerce product monitoring with **90% accuracy** across 10 categories using Selenium, Playwright
- Boosted compute efficiency for variable workloads, **reducing cost by 50%** via ECS Fargate, RDS read replicas
- Incubated with **over \$5000 in funding** in SMU's flagship Business Innovations Generator (Jan 2025 Cohort)

### Lead Solutions Engineer, Global Partners Consulting

Nov 2023 - Apr 2024

- Sped up internal workflows from **24h to under 15min**, via Python FastAPI integration, Outlook & Gmail APIs
- Raised **team velocity by 90%** (measured in features shipped) over 1 month through Github Actions CI/CD

## Certifications

Amazon Web Services: Certified Solutions Architect Associate

valid until **18 Apr 2028**

## Awards

### UBS SMU-X IT Solution Architecture Award

[Github](#) [↗](#)

- Built CRM with **sub-5s latency** & **over 50,000 concurrent transactions** with Fargate, Lambda, Terraform IaC

### Alibaba Global E-Commerce Challenge, 1st Place

[Github](#) [↗](#)

- Created full stack AliExpress export compliance system for **over 10,000 sellers** with NodeJS & Python FastAPI

## Technical Skills

**Languages & Frameworks:** Java (Spring Boot), Python (FastAPI, Pydantic, Alembic), Golang (GORM), C, SQL

**Database & Distributed Systems:** NoSQL, PostgreSQL, Redis, Kafka, RabbitMQ, Elasticsearch, DuckDB, gRPC

**Cloud Infrastructure & Tools:** AWS, Terraform, Docker, Linux, Nginx, Gitlab CI/CD, GitHub Actions, Git, Agile