

# VINCENT ONG

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## EDUCATION

- National University of Singapore (NUS)** Aug 2025 – Present  
*Bachelor of Computing in Computer Science*  
– Nurtured proficiency in **Java, Python, Programming Methodology, OOP, Linear Algebra, Discrete Structures** and **Statistics** in **R** as a Year 1 student.

## TECHNICAL SKILLS

**Languages:** Java, Python, Go, React, JavaScript/TypeScript, SQL, HTML, CSS.

**Frameworks:** Gin, Next.js, Node.js, Express.js, LangGraph

**Developer Tools:** PostgreSQL, Docker, Git, Postman, AWS, Github Actions, Vercel, GCP.

## INTERNSHIPS & EXPERIENCES

- Sonzai Labs – Software Engineering Intern** Mar 2025 – Jun 2025  
– Engineered maintainable clan systems for flagship game "Telemafia" using **Go** and **RESTful APIs**, optimizing atomic **SQL** queries for **ScyllaDB** and implementing **Redis** caching for high-concurrency performance.  
– Built core gameplay UI/UX using **React**, **TypeScript**, and **TailwindCSS**, implementing **i18n** internationalisation and ensuring production stability via rapid bug resolution on a **CI/CD** workflow with QA team.  
– Led frontend development for launching Sonzai's NFT minting event, integrating Web3 wallet authentication while configuring **Cloudflare** (WAF/Rate Limiting) to mitigate **DDoS** and **XSS attacks**; minted **500 NFTs**.  
– Developed an automated data reconciliation system for Telemafia's Leaderboard using **Python** on **Windmill Orchestrator**, utilizing **Apache Pulsar** (Pub/Sub) and **ScyllaDB** for real-time processing.

- IDEATE Hackathon – Participant** Aug 2025

- Ideated and pitched an **AI companion** product designed to alleviate child loneliness and reduce screen time when parental attention and availability is limited.

- SAF Infantry 3rd Sergeant – Leader** March 2023 – Jan 2025

- Demonstrated **reliability** and **trustworthiness** in high-stakes environments, overseeing firearms accountability and ensuring the **safety** and operational readiness of recruits.

## PROJECTS

- ThreadTalk – Full Stack Application** Dec 2025 – Present  
– Architected a scalable forum application inspired by Reddit utilizing **Go (Gin)** for **RESTful APIs** and **Next.js**, **TypeScript** and **React** for the frontend, backed by a **PostgreSQL** relational database.  
– Implemented infinite scroll and recursive hierarchical comment nesting, optimized with concurrent retrieval.  
– Deployed the **serverless** backend infrastructure using **Docker** containerization and **AWS Lambda**, creating a secure **CI/CD** pipeline with **GitHub Actions** and **OIDC** for automated keyless deployments to **Amazon ECR**.  
– Enforced production-grade security via strict **VPC isolation**, **IAM least-privilege policies**, and stateless **JWT authentication**, while managing **PostgreSQL (RDS)** schemas with database migrations.

- Project Visente – Entrepreneurship** Dec 2022 – March 2023

- Launched a fragrance decanting side hustle, selling **40+** bottles gaining approximately **\$100 profit** by leveraging **demand** for affordable access to diverse scents.  
– Executed strategic **market research** on **competitor pricing** and **consumer trends**, utilizing **fragrance profiling** to identify high-margin opportunities and **cost efficiency** for profits.

- AsrFoodMood – Entrepreneurship & Volunteering** Oct 2021 – Dec 2021

- Initiated and spearheaded a food wastage awareness campaign at ASRJC, engaging students through various **social media platforms** and delivering significant donations to FoodBank.

## CERTIFICATIONS AND INTERESTS

**Certifications:** Google Professional Machine Learning Engineer Certification (GCP).

**Interests:** Art and drawing, brazilian jiu-jitsu, tennis and taekwondo.

**Skills:** Duty-oriented, **ownership**, public speaking, leadership, an awesome team-player, optimism.