VINCENT ONG

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EDUCATION

National University of Singapore (NUS)   **Aug 2025 – May 2029 (Expected)**
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 jiujitsu, tennis and taekwondo.
Skills: Duty-oriented, **ownership**, public speaking, leadership, an awesome team-player, optimism.