Vijaya Suhaas Nadukooru

+65 8642 4324 | nvijayasuhaas@gmail.com

linkedin.com/in/suhaasnv | github.com/SuhaasNv | suhaasnv.github.io/portfolio

Summary

M.Tech (Software Engineering) student at the National University of Singapore with a growing interest in product management and product design. I have foundational exposure to designing modern software solutions, architecting scalable and AI-driven systems, and working in Agile team environments. With a strong technical background, I am interested in learning how user needs, system design, and data-driven insights come together to build practical, scalable products.

Product & Learning Exposure

Product thinking and problem framing (foundational)
Understanding user workflows and feature scoping
Exposure to product requirements, iteration, and trade-offs
Agile collaboration through sprint planning, stand-ups, and retrospectives

Education

National University of Singapore   Aug 2025 – Aug 2026 (Expected)
Master of Technology, Software Engineering – GPA: 4.0 / 5.0   Singapore
Relevant Coursework:

- Designing Modern Software Solutions – translating business problems into maintainable and scalable system designs
- Architecting Scalable Systems – understanding system boundaries, modularity, and architectural trade-offs
- Designing and Managing Products – exposure to product discovery, user needs, and iterative development
- Architecting AI Systems – foundational understanding of integrating AI components into larger software systems

Vellore Institute of Technology   Aug 2021 – Aug 2025
Bachelor of Technology, Information Technology – CGPA: 8.21   Vellore, India

Projects

SpaceFlow — Smart Workplace Platform (System Design & Exploration)
Learning-focused project on product and system architecture

- Explored the design of a smart workplace platform covering space booking, occupancy tracking, analytics, and AI-assisted insights.
- Defined clear service boundaries and API-first contracts to understand how product requirements influence system architecture.
- Used AI-assisted development to prototype services and validate architectural ideas, focusing on clarity and separation of concerns rather than production readiness.
- Learned how decisions around scope, modularity, and data ownership affect system complexity and product flexibility.

AI Knowledge Assistant (RAG-Based System)   *Python, LangChain, Redis, Docker*

- Built a Retrieval-Augmented Generation (RAG) system to help users retrieve relevant information from structured documents.
- Improved response latency by approximately 50% through optimized retrieval pipelines and containerized deployment.
- Gained experience translating system design decisions into user-facing performance improvements.

Plant Leaf Disease Detection System   *Python, TensorFlow*

- Developed a machine learning solution for early disease detection across 38 plant disease classes.
- Improved model accuracy by 12% through data preprocessing and augmentation, reinforcing the role of data quality in product outcomes.

Technical & Systems Skills

Programming: Python, JavaScript (React, Node.js), Java, SQL
AI & Systems: LangChain, RAG pipelines, API-based system design
Cloud & DevOps: Docker, AWS, Microsoft Azure, Git, Linux
Collaboration Tools: Jira, VS Code, Kafka (basic), Redis (basic), n8n
Agile Practices: Scrum, Kanban, sprint planning, backlog discussions

Certifications & Training

AWS Cloud Practitioner   Microsoft Azure AZ-104

Generative AI (IBM)   Agile with Atlassian Jira

NUS ISS Learning Festival 2025 – AI, Cloud, Digital Transformation