

SUMANTH YALAMARTY

+65 89442247 ◇ Singapore, SG

Email ◇ Website ◇ Github ◇ Twitter ◇ Portfolio ◇ Podcast

EDUCATION

Bachelors of Computing, National University of Singapore Aug 2020 to Jun 2024
Major in **Computer Science** (*Honors w/ Distinction*), Focus Area in **Artificial Intelligence** and **Software Engineering**

EXPERIENCE

Software Engineering Intern May 2023 to Aug 2023
Goldman Sachs *Singapore, SG*

- Worked in **Core Engineering** division for the E2E development of a mission-critical application, ensuring its **reliability** and **performance** met the high standards of Goldman Sachs; thereby **successfully deploying to production** in 8 weeks
- Leveraged both open-source and proprietary tools to optimize workflow and streamline development processes

Research Intern Jan 2022 to Aug 2022, Aug 2023 to Jan 2024
NUS IORA (Institute of Operations Research and Analytics) *Singapore, SG*

- Worked on **federated learning** and **decentralized computing** techniques to improve PoS (Point of Sale) systems
- Explored integration of **knowledge graphs** and **LLMs** to **reduce hallucinations**

TEACHING

Undergraduate Teaching Assistant Multiple Terms (including present)
NUS School of Computing *Singapore*

- Served as a teaching assistant for multiple courses: **CS3243** (Artificial Intelligence), **CS1010** (Programming Methodology), **CS3203** (Software Engineering Project), **IT5005** (Artificial Intelligence, Gen Track), **CS2030S** (Programming Methodology II), **CS2102** (Database Systems) with an average rating of **4.5/5**
- **Honor's List of Student Tutors** for **AY21/22**
- Worked on **assignment design**, **project collaborations**, engagement sessions, consultations

Senior Advisor May 2023 to Aug 2023
NUS School of Computing *Singapore*

- Advised **12** student teams on a **self-directed software development** journey throughout the summer
- Taught best practices of SDLC like **Shift Left Mindset**, **CI/CD**, Project Management, Technical Communication

PROJECTS

NUS Learn AI, SELENE | *Python, LangChain, Large Language Models, Neural QG* Aug 2023 to May 2024
Working on creating a suite of **AI-enabled tools** to improve **NLP education** as a part of **FYP (Disseration)**

Static Program Analyzer for SIMPLE | *C++17, CMake, Docusaurus, Github Actions* Jan 2023 to May 2023
Built a program analyzer for a custom language called **SIMPLE** supporting **semantic querying** of entity relationships and other language features; Achieved **99.84% accuracy** in evaluation with zero performance lapses

Humancode | *Next.js, TypeScript, SCSS* Jan 2023
Created a web application to test **code writing speed** in several languages for Hack&Roll 2023

Ishvari | *MERN Stack, Heroku* Mar 2022
Built a **social media** app focused on prospering **women-led** small scale businesses; **Finalists** in **GDSC Hack For Good**

Masterword | *React.js, Material UI, Netlify* Jan 2022
Built a **web-based puzzle game** inspired from Mastermind and Wordle; **Winners** in **Hack&Roll 2022**

EXTRA-CURRICULAR ACTIVITIES

- **Blogger** about ideas from life • **Polkadot Blockchain Academy** Graduate • Active Community Member of the **Network States** and **Polkadot Singapore** • **Student Wellness Ambassador** at Prince Georges' Park Residences • Author of AI and Philosophy newsletters

SKILLS

Technical Skills Python, Shell, JavaScript, TypeScript, Java, Rust, C, C++, CSS, L^AT_EX, PostgreSQL
Frameworks and Tools React, Next, Node, Express, Chakra UI, Reflex, FastAPI, Marp, Grafana, Prometheus