

# SUMANTH YALAMARTY

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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

**Quantitative Strategist**

July 2024 to Present

Goldman Sachs

*Singapore, SG*

- Working on providing The Best Algorithmic Trading Services to clients in APAC
- Building the next-generation low-latency cash equities execution system, [Atlas](#)

**Software Engineering Intern**

May 2023 to Aug 2023

- Worked in **Core Engineering** division for the end-to-end development of a mission-critical application, ensuring high standards of **reliability** and **performance**
- Only intern to **successfully develop and deploy application to production** in 6 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 (Jan 2022 - May 2024)

NUS School of Computing

*Singapore*

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

**Senior Advisor**

May 2023 to Aug 2023, May 2024 to Aug 2024

- Advised **24** student teams on a **self-directed software development** journey throughout the summer

## PROJECTS

**NUS Learn AI, SELENE** | *Python, LangChain, Large Language Models, Neural QG*

Aug 2023 to May 2024

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

Program analyzer for a custom language called **SIMPLE** supporting **semantic querying** of entity relationships and other language features; **99.84% accuracy** in evaluation with zero performance lapses

**Humancode** | *Next.js, TypeScript, SCSS*

Jan 2023

Web application to test **code writing speed** in several languages for Hack&Roll 2023

**Ishvari** | *MERN Stack, Heroku*

Mar 2022

Social media app focused on prospering **women-led** small scale businesses; **Finalists** in **Google DSC Hack For Good**

**Masterword** | *React.js, Material UI, Netlify*

Jan 2022

**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

## SKILLS

**Technical Skills**

Python, Zero GC Java, Rust, kdb+, C++, Shell, TypeScript, CSS, L<sup>A</sup>T<sub>E</sub>X, SQL

**Frameworks and Tools**

Langchain, PyTorch, React, Next, FastAPI, Grafana, Prometheus