SUMANTH YALAMARTY

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Email ⋄ Website ⋄ Github ⋄ Twitter ⋄ Portfolio ⋄ Podcast

EDUCATION

Bachelors of Computing, National University of Singapore — Expected May 2024
Majoring in **Computer Science**, Focus Area in **Artificial Intelligence** and **Software Engineering**

EXPERIENCE

Student Researcher — Jul 2023 to Present
Hyperledger Foundation — *Remote*
- Working on **Privacy Preserving Systems** as a part of **Collaborative Learning Platform initiative** by **LFX**

Software Engineer 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 Present
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
- Currently working on 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) with an average rating of **4.5/5**
- Worked on **assignment design**, **project collaborations**, discussions and engagement sessions

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 | *Python, Langchain, Vector Databases, TypeScript, Chakra UI* — Aug 2023 to Present
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 • 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, LaTeX, PostgreSQL
Frameworks and Tools	React, Next, Node, Express, Chakra UI, Reflex, FastAPI, Marp, Grafana, Prometheus