

Siddardha Reddy Sanagala

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EDUCATION

National University of Singapore

Singapore

Bachelor of Computing (Honours) in Computer Science (GPA: 4.43/5)

Aug. 2023 – Jun 2027

- Second Major in Mathematics, Minor in Quantitative Finance
- Specialisations: Computer Security, Artificial Intelligence
- Relevant courses: Introduction to Computer Networks (A), AI and ML (A), Operating Systems (A-), Information Security (A-), Data Structures and Algorithms, Programming Methodology 1 and 2, Computer Organisation

TECHNICAL SKILLS

Languages: Java, Python, Go, SQL (Postgres), JavaScript/TypeScript, HTML/CSS, C, C++

Frameworks: React/React Native, TensorFlow, OpenCV, Gatsby.js, Node.js, Flask, Jest

Developer Tools: Git, Docker, GitHub Actions, Postman

Platforms: Expo, Azure, Stripe, Supabase, Firebase

WORK EXPERIENCE

Solutions Engineer (Internship)

May 2025 – Aug 2025

InterSystems

Singapore

- Led the development to meet the requirements for a national tender demo, impacting 5.9M+ patients across one of Singapore's largest digital-health initiative
- Developed a full-stack demo integrating with InterSystems HealthShare to meet clinical consent management
- Led a database migration from MySQL to InterSystems IRIS SQL, migrating 100+ tables while maintaining data integrity and functionality between the two systems
- Architected a custom driver in Clojure for an open source BI platform Metabase, leveraging IRIS JDBC connectivity to enable data visualization and analytics capabilities (github.com/Siddardar/metabase-iris-driver)

PROJECTS

SwipeStyle (NUS Orbital (Software Engineering Project)) | *React Native, Python, Node.js, PostgreSQL, Tensorflow*

- Developed a full-stack mobile shopping application using Expo, React Native and Node.js
- Implemented a custom collaborative filtering machine learning model using TensorFlow Keras
- Built a Flask back-end for the model to query recommendations for new users as well as handle new user sign-ups
- Achieved a model accuracy of 0.733 and a training loss of 0.109 with a limited dataset of 500 interactions
- Containerised model and Node.js back-end using Docker and hosted it on Azure using GitHub Actions
- Attained the level of Apollo, awarded to the top 10% of all projects. <https://shorturl.at/9tcsb>

Quant Analytics Platform | *Next.js, Go, Python, MongoDB*

- Currently developing a web-based platform enabling users to upload and execute Python trading strategies with automated backtesting capabilities
- Built a secure file upload system with Python script validation and sandboxed execution environment to prevent malicious code

CO-CURRICULAR ACTIVITIES

NUSSU Deputy Director of Finance

Aug 2024 – Present

National University of Singapore

Singapore

- Managed and tracked 6 figures worth of annual student funds across 15+ committees and projects
- Processed and approved 100+ purchase requests, ensuring compliance with NUSSU financial regulations
- Worked with 10+ student bodies (e.g., commIT, BIZCOM) to fund disbursement efficiency

ADDITIONAL INFORMATION

Leadership Roles: President/Member of Student Council (2016-2018/2018-2020), Badminton Captain (2024 - Present)

Teaching Roles: Intro to Computer Networks, Intro to AI and ML, Digital Ethics and Data Privacy

Languages: English (Native), Telugu (Native), German (Fluent), Spanish/French/Hindi (Intermediate)

Work Authorization: Singapore Citizen

Current Availability: Aug 2025 - Aug 2026