

# 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*

- Integrated InterSystems IRIS cloud data platform into RAG pipeline for Singapore AI Fintech's Portfolio AI Copilot, projected to process 10,000+ financial documents with 95% accuracy
- Mapped 500+ vector-store schemas into ObjectScript classes and exposed 15+ REST endpoints, reducing query response time by 40% for contextual knowledge search
- Currently collaborating with 8-member solutions-engineering team on Singapore's National Electronic Health Record \$50M+ tender demo, impacting 5.9M+ patients across SEA's largest digital-health initiative

## 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 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 2025 – 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)

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

**Work Authorization:** Singapore Citizen

**Current Availability:** Off-Cycle (Aug 2025 - Apr 2026)