

**Sanath Sachin Surawar** | Mobile No.: 9037 1041 | Email: [sanath2604@gmail.com](mailto:sanath2604@gmail.com)

Portfolio URL: <https://www.linkedin.com/in/sanath-surawar>

## SUMMARY

Results-driven Software Engineer with strong expertise in Java, AWS, and full-stack web development. Proven experience designing and delivering complex, high-volume, multi-tier enterprise applications across AEM, AWS, and mobile ecosystems. Adept at building RESTful microservices, optimizing performance, and ensuring high code quality through TDD, refactoring, and CI/CD automation. Collaborative, forward-thinking, and passionate about creating seamless digital experiences at scale.

## EDUCATION

**National University of Singapore, Singapore** Aug 2023 - Present

**Master of Technology in Software Engineering – NUS Institute of Systems Science (Part-Time)**

- Currently pursuing Masters in a part-time capacity with a CGPA of 4.5.
- Relevant Coursework: Platform Engineering, Cloud Native Solution Design, Architecting Agentic AI Solutions, DevSecOps Engineering and Automation

**Nanyang Technological University, Singapore** Aug 2019 – May 2023

**Bachelor of Engineering (Computer Science) – School of Computer Science and Engineering**

- Achieved Honours (Merit) with a Double Elective Focus in Data Science and Artificial Intelligence
- Relevant Coursework: Cloud Computing, Advanced Software Engineering, Software Systems Analysis and Design, Data Structures and Algorithms, Database Systems, Human-Computer Interaction

## WORK EXPERIENCE

**NCS (SingTel Group)**

**Full-stack Software Engineer** Aug 2023 – Present

- Building and maintaining critical modules for the LTAGov and Datamall portal under the Land Transport Authority (LTA), using HTML, CSS, JavaScript (Vanilla & AEM components) on the frontend, and Java Sling Framework & JSP on the backend.
- Developed robust feature logic and optimized frontend performance, ensuring reliability for a mission-critical portal serving thousands of daily users.
- Engineered AWS Lambda automation for multi-asset uploads into AEM DAM via endpoints, streamlining content ingestion pipelines and enhancing scalability of media asset management.
- Contributed to the MyTransportSG app (3.5M+ downloads, 100K+ active users), using Swift, Realm, Alamofire, Firebase, and Google Maps SDK.
- Delivered key feature updates (e.g. bus schedule changes, MRT TEL station rollouts) through full-cycle development, WebView integration, backend logic enhancements, and comprehensive testing (blackbox, regression, usability).

## INTERNSHIP EXPERIENCE

**NCS (SingTel Group)**

**Frontend Web Engineer Intern** Aug 2022 – Nov 2022

- Created a web frontend for internal MLOps tools used by NEXT Gen Tech Team at NCS.
- Conducted rapid prototyping and development for full-stack website with streamlined unit and functional testing.
- Tech stack used: React.js, Node.js, Python.

**Quest – Hire a Hero** May 2022 – Jul 2022

**Full-Stack Software Engineer Intern**

- Developed and shipped new Flutter mobile app features, including an integrated payment platform and premium-only functionality, enhancing engagement for **10,000 daily active users**.
- Led the migration of app state management from a legacy solution to **BLoC architecture**, improving scalability, maintainability, and testability of the Flutter codebase.

## Seagate Technology

Jul 2021 – Dec 2021

### Software Engineering Intern

- Integrated PySyft into Seagate's ML workflows with AISG, building a federated training pipeline to securely access sensitive hard drive telemetry data and validate performance against centralized models.
- Collaborated and performed extensive software testing (black box, compatibility, GUI) for Seagate's Federated Learning platform, built using Python, HTML, CSS, JavaScript and Vue.js.

## ACADEMIC PROJECTS

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### Designing Modern Software Systems Project (NUS-ISS)

Jan 2025 – May 2025

#### Full-stack Engineer

- Led the development of *JobConnect*, a web-based platform designed to streamline job applications and centralize applicant-employer communication.
- Built core frontend features using Next.js and React, including user profile creation, job tracking dashboard, and dynamic job listing components.
- Integrated backend workflows for application submission, email parsing, and notification updates.
- Utilized AWS services such as S3 for document storage, Lambda for serverless logic, and DynamoDB for scalable data handling to support a cloud-native architecture.

### Cloud Computing Project (NTU)

Feb 2023 – May 2023

#### Full-stack Engineer

- Designed a full-stack web-based application that helps people learn ASL (American Sign Language) through a gamified learning experience.
- Created application using React for frontend, Python for backend and machine learning, AWS Amplify and AWS Lambda for hosting application and backend functionalities.

## SKILLS & ACHIEVEMENTS

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### Programming Languages & Frameworks:

- **Languages:** Java, Python, Dart, SQL, JavaScript, TypeScript, HTML, CSS
- **Frameworks & Libraries:** React, Flutter, Node.js, Docker, Firebase (NoSQL), AWS, MySQL
- **Professional Certification:** Professional Scrum Developer (PSD)

**NutrIoTion** : Founded an IoT based solution for food quality monitoring that won and contested in:

- **ASEAN Climate Hack:** First Place, Code for Asia and SAP (2500 SGD Cash Prize)
- **Top 6 (ASEAN) Hack** in Grab Hack4Good Hackathon
- **Best University Solution** in MIT 15k Hackathon
- **Finalists in** 'Hungry for Change' challenge organised by DBS Foundation x NEA.
- **Finalists in FIT Hack** conducted by FairPrice Group Singapore.