

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

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

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)

NutriIoTion : 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.