LOH YANG XIAN

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE   Singapore
Bachelor of Science in Business Analytics (Computing)   Expected May 2025
GPA: 4.33/5.0
Relevant Coursework: Programming Methodology, Object Oriented Programming, Data Structure & Algorithms

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, SQL, HTML, CSS, R
Frameworks: Java Spring Boot, Angular, Vuejs, Flask
Technologies: Microsoft SQL, MySQL, AWS, Jenkins, Postman, Firebase

WORK EXPERIENCE

AUTODESK   Singapore
Software Engineering Intern   May 2023 – Present
- Developed Forge Content API, a files and derivatives system deployed to production and used by other internal teams
- Wrote QA test scripts using Postman
- Implemented new search features and their corresponding unit tests in the existing Spring Boot API
- **Java Spring Boot, Mockito, Postman, MySQL, AWS, Jenkins**

NCS GROUP   Singapore
Software Engineering Intern   Dec 2022 – May 2023
- Developed Subvention System Webapp for the Ministry of Health (MOH), serving over 20 hospitals
- Wrote REST APIs in Java Spring Boot for internal application processes
- Implemented dashboard, download reports and search modules using Angular, streamlining MOH manual processes by 60%
- **Java Spring Boot, Postman, Angular, Microsoft SQL**

QUADRANT360 CONSULTING   Singapore
Cybersecurity Consultant Intern   May 2022 – Aug 2022
- Performed monthly vulnerability testing using Nessus, Kali Linux, producing vulnerability assessment reports
- Conducted security checks for clients' network systems using Sophos and Fortinet software
- **Nessus, Kali Linux, Sophos, Fortinet**

PROJECTS

INSTANT MESSAGING SYSTEM   Jun 2023
- Implemented backend architecture consisting of HTTP server and RPC server
- Utilized Redis as data storage for efficient message storage and retrieval
- **Golang, Redis, Docker, Postman, JMeter**

TEOHENG BOOKING SYSTEM   Jan 2023 – May 2023
- Took part in designing the overall system architecture
- Lead the design and development of the frontend components, using Vuejs
- **Vuejs, Firebase**

TEACHING ASSISTANT

CS2040 DATA STRUCTURES AND ALGORITHMS   Jun 2023 – Present
- Taught a class of 20 over a 6-week semester, on topics ranging from Sorting to advanced Graph Algorithms
- **Java**

ADDITIONAL

Languages: English, Chinese, Teo Chew
Certifications & Training: Amazon Web Services Cloud Practitioner, TikTok Immersion Programme
Awards: NES Ground Zero 2023 – Finalist