

NICHOLAS ARLIN HALIM

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EDUCATION

National University of Singapore

Aug 2021 - Apr 2025

Bachelor of Computing in Computer Science (Penultimate Year Student)

- Relevant course work: Programming Methodology, Data Structures and Algorithms, Computer Organisation, Intro to Machine Learning and Artificial Intelligence, Introduction to Information Security, Software Engineering
- Co-Curricular Activities: NUS Fintech Society Blockchain Developer, Temasek Hall
- NUS Merit Scholar

Credit Bearing Internship Availability: January 2024 onwards for a period of 6 months

WORK EXPERIENCE

Software Engineer Intern, Thales Digital Identity and Security

May 2023 - Present

- Implement new features and bug fixes in Java with stringent unit-testing to continuously improve user experience for internal tools used in Thales DIS.
- Help with code review of other full-time software engineers' code to maintain code quality and ensure correct implementation of features.
- Involved in DevOps software development cycles in a team of software engineers including sprint planning and backlog refinement to scope tasks for future sprints.
- Refactor thousands of lines of legacy code to improve code readability and ensure adherence to good software engineering principles.

Teaching Assistant, School of Computing NUS

Jan 2023 - Apr 2023

- Taught two tutorial classes of a total of 23 students for CS2100 Computer Organisation, a course on the concepts of MIPS Architecture.
- Guided students through tutorials and assignments with a gamified learning system to make learning enjoyable. Graded their assignments and projects while providing constructive feedback.

Junior Full Stack Developer Intern, ServerSam Pte Ltd

May 2022 - Jul 2022

- Developed websites for e-commerce businesses on the ASP.NET framework with SQL Server Management studio databases in Javascript, C#, HTML, CSS

PROJECTS AND HACKATHONS

Patient Management App

Feb 2023

- Spearheaded team of students to work on a brownfield software project to write high quality code adhering strictly to OOP principles and good software engineering principles using Java, JavaFX, HTML & CSS.

Breakthrough AI

Oct 2022

- Built a bot to play a 6x6 game of Breakthrough using AI and machine learning concepts such as mini-max algorithm and alpha beta pruning in Python.

Singapore Blockchain Innovation Challenge, Singapore

Dec 2021

- Innovated a blockchain interoperability solution for the healthcare industry with parachains on Polkadot ecosystem, aiming to decentralise data storage and enable predictive analytics in healthcare.

LEADERSHIP EXPERIENCE / CO-CURRICULAR ACTIVITIES

NUS Fintech Society

Aug 2022 - Dec 2022

- Helped to build front-end of an on-chain subscription application allowing clients to accept crypto as subscription payments, with cash flowing in every second instead of monthly or yearly payments in React.

Temasek Hall Video Production Unit

Aug 2021 - Apr 2023

- Film and produce quality videos to promote hall events and increase social media outreach through engaging videos of high production value while training members' filming and editing skills.

Army Officer, Singapore Armed Forces

Dec 2019 - Nov 2020

- Led a team of full-time national servicemen to maintain operational readiness of equipment and infrastructure at Key Installations in Singapore and took care of their administrative matters.

SKILLS

- **Languages:** English, Mandarin
- **Programming Languages:** Java, Python, C#, HTML & CSS, JavaFX, Javascript, C
- **Frameworks/Libraries:** React.js, ASP.NET, Cucumber Gherkin, Mockito
- **Software:** Github, Bitbucket, Sourcetree, Figma, MySQL, DBeaver, Postman, Atlassian Suite, Adobe Premiere Pro
- **Other Interests:** Finance, Video production, Endurance sports