

Work Experience

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| Software Engineering Intern at Fabrica.AI | Oct 2022 – Apr 2023 |
| <ul style="list-style-type: none">Developed CI/CD workflow for building, testing and deploying robot softwareTested behavioural logic for tile-grouting robot with Robot Operating Software (ROS)Wrote internal scripts and dotfile configurations to enhance developer productivity | |
| Software Engineering Intern at LUMIQ | Jun 2022 – Aug 2022 |
| <ul style="list-style-type: none">Reconfigured self-managed plugins to work with updated Kubernetes versions on AWS EKSDeployed a Google Apps Script add-on as a proof of concept to make LUMIQ optimizer API accessible from Google Sheets | |
| Software Engineering Intern at Netatech Engineering | May 2021 – Aug 2021 |
| <ul style="list-style-type: none">Implemented novel resource usage, irrigation schedule and environment data visualizations with Plotly.jsDeployed serverless functions for remote device control through AWS IoTPrototyped an Android application with Kotlin and AWS Amplify | |

Education

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| Singapore Management University
<i>BSc Computer Science (Artificial Intelligence Track)</i> | Aug 2019 – Present |
| <ul style="list-style-type: none">Expected GPA: 3.90 / 4 (Summa Cum Laude)Recipient of SCIS (School of Computing and Information Systems) Achievements scholarshipDean's List: AY2019-2020 (Year 1), AY2020-2021 (Year 2) | |
| Raffles Institution
<i>Singapore-Cambridge GCE A-Level</i> | Jan 2014 – Dec 2015 |

Projects

ScamSword

- Prototyped offensive scam-prevention measures developed in collaboration with Open Government Products (OGP)
- Site inspect* analyzes URL, website DOM, and favicon to generate a comprehensive risk report
- Scam chat* feature facilitates anonymous chat sessions through Telegram APIs

SourC-VM

- Compiler and virtual machine that targets a subset of the C programming language
- Support for compilation errors, type-checking, conditionals, loops, and stack and heap implementations with visualizations for debugging

Spend Transactions

- Full-stack web application that ingests transactions, processes rewards for credit card expenditure and displays them to users
- Conducted automated infrastructure provisioning with CloudFormation and build releases with Github Actions

Ryverbank API

- Built backend REST API with online banking and stock trading features in collaboration with a global investment bank
- Practiced Scrum methodologies in Jira and cloud deployment on DigitalOcean

Extracurriculars

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| Volunteer at Better.SG | Aug 2022 - Present |
| <ul style="list-style-type: none">Active consultant for using no-code software tools to help beneficiaries improve digital workflows | |
| Volunteer lead at Ground-Up Initiative | Aug 2019 – Sept 2022 |
| <ul style="list-style-type: none">Led and coordinated volunteer participation in the flagship weekend programme “Balik Kampung”Administered digital workflows for volunteer management, knowledge sharing and social media campaigning | |
| Teaching Roles at Singapore Management University | Jan 2021 – Dec 2022 |
| <ul style="list-style-type: none">Courses: Linear Algebra, Object-Oriented Programming, Computer Hardware and Embedded Systems, DevOpsPrepared practices and review materials to prepare juniors for major programming lab tests | |

Skills

Languages:	English, Mandarin (All Native)		
Software:	Languages:	C • C# • Java • JavaScript • Python • SQL	
	Web Development:	HTML/CSS • React • Spring • ASP.NET • REST APIs	
	Data Science, AI/ML:	Tensorflow • Numpy • Pandas • Plotly	
	DevOps:	Docker • Serverless • Gitlab CI • Kubernetes • Jenkins • AWS • GCloud • Terraform	
	Other:	Git • LaTeX • Bash • Linux	