

Experience

Software Engineer at Shopee	Sep 2024 – Present
Software Engineer at Knovel Engineering	Jan 2024 – Aug 2024
<ul style="list-style-type: none">Developed browser extensions for dynamic web scraping with LLMs and running remote browser automations with PuppeteerDeployed a full-stack LLM web application to third-party and commercial cloud servicesDeveloped and benchmarked AI solutions for speech-to-text transcription and speaker diarization	
Software Engineering Intern at Fabrica.AI	Oct 2022 – Apr 2023
<ul style="list-style-type: none">Developed self-hosted CI/CD workflow for building, testing and deploying robot software with JenkinsImplemented build systems, shell scripts and dotfile configurations to enhance developer productivity	
Software Engineering Intern at LUMIQ	Jun 2022 – Aug 2022
<ul style="list-style-type: none">Migrated self-managed plugins to support new Kubernetes versions on AWS EKSDeployed a Google Apps Script add-on as a proof of concept to make optimizer API accessible from Google Sheets	
Software Engineering Intern at Netatech Engineering	May 2021 – Aug 2021
<ul style="list-style-type: none">Implemented resource usage, irrigation schedule and environment data visualizations with Plotly.jsDeployed serverless functions for remote device control with MQTT and AWS IoT Core	

Education

Singapore Management University	
<i>BSc Computer Science (Artificial Intelligence Track)</i>	Aug 2019 – Dec 2023
<ul style="list-style-type: none">GPA: 3.7 / 4 (Magna Cum Laude)Recipient of SCIS (School of Computing and Information Systems) Achievements scholarshipDean's List: AY2019-2020 (Year 1), AY2020-2021 (Year 2)	

Projects

CoastalClear	Jun 2024
<ul style="list-style-type: none">Web application using historical data to predict cleanliness levels of coastlines and coordinate volunteer cleanup effortsNominated as a finalist among 19 teams and underwent further development in an accelerator round	
ScamSword	May 2023
<ul style="list-style-type: none">Prototyped offensive scam-prevention measures developed in collaboration with Open Government Products (OGP)<i>Site inspect</i> analyzes URL, website DOM, and favicon to generate a comprehensive risk report<i>Scam chat</i> feature facilitates anonymous chat sessions through Telegram APIs	
SourC-VM	May 2023
<ul style="list-style-type: none">Compiler and virtual machine that targets a subset of the C programming languageSupport for compilation errors, type-checking, conditionals, loops, and stack and heap implementations with visualizations for debugging	
Spend Transactions	Nov 2021
<ul style="list-style-type: none">Full-stack web application that ingests transactions, processes rewards for credit card expenditure and displays them to usersConducted automated infrastructure provisioning with CloudFormation and build releases with Github Actions	

Activities

Volunteer at Better.SG	Aug 2022 - Present
<ul style="list-style-type: none">Providing tech helpdesk and consulting services for nonprofits looking to improve digital workflows	
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, DevOpsComposed practice and review materials to prepare juniors for major programming lab tests	
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	

Skills

Languages:	English, Mandarin (All Native)	
Programming:	Languages:	Python • Java • JavaScript • C • C# • SQL
	Web Development:	HTML/CSS • ReactJS • Spring • FastAPI • ASP.NET
	DevOps:	Docker • Kubernetes • AWS • Google Cloud • Azure • Terraform • Gitlab CI
	Data Science & ML	Pandas • Numpy • Jupyter • Tensorflow • Pytorch
	Other:	Git • Bash • Linux/UNIX • LaTeX