

Work Experience

Software Engineering Intern | Kubernetes • AWS • JavaScript • Google Apps Script

LUMIQ Jun 2022 – Aug 2022

- Reconfigured self-managed plugins to work with updated Kubernetes versions on AWS EKS
- Deployed a Google Apps Script add-on as a proof of concept to make LUMIQ optimizer API accessible from Google Sheets

Software Engineering Intern | JavaScript • Python • AWS • Kotlin

Netatech Engineering May 2021 – Aug 2021

- Implemented novel resource usage, irrigation schedule and environment data visualizations for the iHydroGarden interface
- Deployed serverless functions for remote device control through with user interactions on the iHydroGarden interface
- Prototyped an Android mobile application with Kotlin and AWS Amplify
- Crafted internal documentation, data flow diagrams and API collections for knowledge-sharing and testing

Operations Intern

Payboy Jan 2019 – Jun 2019

- Conducted user acceptance testing (UAT) of software in local, staging and production environments
- Provided technical user support through Intercom, WhatsApp Business, email and phone calls
- Applied Git and web development knowledge to write internal software documentation

Education

Singapore Management University

BSc Computer Science (Artificial Intelligence Track), 2nd Major in Public Policy Aug 2019 – Present

- Cumulative GPA: 3.85 / 4 (Summa Cum Laude)
- Recipient of SCIS (School of Computing and Information Systems) Achievements scholarship
- Dean's List: AY2019-2020 (Year 1), AY2020-2021 (Year 2)

Raffles Institution

Singapore-Cambridge GCE A-Level Jan 2014 – Dec 2015

Projects

Spend Transactions | ReactJS • Serverless • .NET • Docker • AWS

- 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 | Spring • Docker • Jira

- 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

Volunteer lead at Ground-Up Initiative

Aug 2019 – Present

- Led and coordinated volunteer participation in the flagship weekend programme “Balik Kampung”
- Administered digital workflow process for volunteer management, knowledge sharing and social media campaigning

Teaching Assistant at Singapore Management University

Jan 2021 – Present

- Courses: Linear Algebra, Object-Oriented Programming, Computer Hardware and Embedded Systems, DevOps
- Prepared and taught revision workshops in C programming and SQL

Education Director at SMU Coder's Assembly

Aug 2021 – Dec 2021

- Prepared programming practices as learning materials for mentoring sessions
- Taught coding clinics to prepare mentees for major programming lab tests

Professional Development Director at SMU Whitehat Society

Jan 2020 – Aug 2020

- Sourced for open events and collaboration opportunities with external organizations
- Conducted talks and workshops teaching cybersecurity concepts and skills to the student population
- Spearheaded procurement of merchandise and logistics as part of an annual outreach programme for junior college students

Skills

Languages: English, Mandarin (All Native)

Programming: Languages: C • C# • Java • JavaScript • Python • SQL
Web: HTML/CSS • React • Spring • ASP.NET • REST APIs
Data/AI/ML: Tensorflow • Numpy • Pandas
DevOps: Docker • Serverless • Kubernetes
Other: Git • LaTeX • Bash • Gitlab CI • AWS