

Hieu Dao Ngoc

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

B.COMP IN COMPUTER SCIENCE (DISTINCTION)

Teaching Assistant for CS1010, CS2030S, TIC2601 & BT5110
CAP: 4.45/5 | 2019 - 2023 | Singapore

LINKS

Github:// [daongochieu2810](#)
LinkedIn:// [daongochieu2810](#)
Upwork:// [Hieu D.](#)

COURSEWORK

UNDERGRADUATE

Programming Methodology I & II
Data Structure and Algorithms
Computer Organisation
Software Engineering
Introduction to Computer Networks
Database Systems
Introduction to Operating Systems
Introduction to Artificial Intelligence
Thematic Systems Project I & II
Design and Analysis of Algorithms
Introduction to Information Security
Wireless Networking
Big Data Systems for Data Science
AI Planning and Decision Making
Computer Vision and Pattern Recognition
Parallel and Concurrent Programming
Mathematical Finance I
Investment Instrument and Risk Management
Linear Algebra I & Calculus I

SKILLS

PROGRAMMING

Over 10,000 lines:

Javascript/Typescript • Java

• React • React Native • Flutter

Over 5,000 lines:

C • C++ • PostgreSQL • MongoDB

Over 1,000 lines:

Selenium • Angular • Jest • AWS

• Google Cloud • Google App Engine

Familiar:

Python • Vue • Docker

• Kubernetes

EXPERIENCE

ONEXTECH | SOFTWARE ENGINEER

May 2023 - Now | Singapore

- Built full-stack Javascript applications for clients such as GIC and VolumeFive - Responsible for the development of Workmetric for VolumeFive and Arena for GIC
- Qualified as an official employee after just 2 months into the 6-month probation period; Received a 12% pay raise after 5 months into the job for successfully handing over Arena to GIC before the deadline with great feedback from GIC

SCHOLARLY.SG | LEAD SOFTWARE ENGINEER

Jun 2023 - Jan 2024 | Singapore

- Built a tutor booking app from scratch with Flutter, offering services such as tutor matching and tuition session scheduling
- Led development of flagship features such as Tuition Job Postings and Tutor Recommendation Engine
- Enhanced app notifications with native Swift and Kotlin plugins for iOS and Android
- Enhanced security with multi-factor authentication using SMS OTP

DYNAMIC TECHNOLOGY LAB | SOFTWARE ENGINEER INTERN

Dec 2022 - Feb 2023 | Singapore

- Developed productivity features for an internal DevOps platform for Ansible projects, such as concurrent project configs editing and remote deployment
- Developed a trading data management tool streamlining the process of reading/writing trading data following the master-slave architecture
- Built a CLI app for an existing web-based C++ package management tool

GIC PRIVATE LIMITED | SOFTWARE ENGINEER INTERN

Sep 2021 - Dec 2021 | Singapore

- Developed and enhanced new capabilities for the Data Science team's suite of NLP services such as LabelStudio, ThematicEngine, and NeuralSearch with NodeJs, Typescript, GraphQL and PostgresDB
- Containerized existing microservices into a well-connected internal network with Docker managed with Kubernetes
- Built CI/CD pipelines for ThematicEngine's front-end and back-end

SHOPBACK | FULL-STACK SOFTWARE ENGINEER INTERN

May 2021 - Jul 2021 | Singapore

- Developed new features and APIs for merchant and deal services with NestJs, TypeScript and MongoDB
- Added a page for merchants to download monthly reports on ShopBack Merchant Portal which has been deployed to production
- Significantly improved the productivity of ShopBack's Operations and Marketing teams by adding salient features to internal management tools

PROJECTS

3D GEOMETRY MOBILE APP | 50 STARS ON GITHUB

Dec 2020

- An open-source 3D Geometry visualization application built with React Native, ThreeJS and custom shaders to optimize object rendering
- The application received Honourable Mention at AlgoExpert 2020 Summer-Fall SWE Competition, having more than 50,000 downloads on Google PlayStore and more than 4,000 monthly active users