Siddesh Sambasivam Suseela

Software Engineer & Machine Learning Practitioner

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RELEVANT WORK EXPERIENCE

Hypotenuse AI, Singapore – *Software Engineer*

Jan 2023 - Present

Shopee, Singapore – *Backend Engineer Intern*

Oct 2021 - Mar 2022

- Developed internal platform to **manage 10+ ML model** configs

Datlite, Singapore – *Founder & Lead Software Engineer*

Mar 2021 - Mar 2022

Acquired funding of **S$5000** from NTU SCSE Innovation lab.

- Managed a team of **6 engineers** and a business team of **5 members**

NTU, Singapore – *Software Engineer*

Feb 2021 - Jul 2021

- Increase search relevance by **100%** by building a **natural language search system**

Shopee, Singapore – *Data Science Intern*

May 2020 - Jan 2021

- Trained **language agnostic embedding** model for **8+ languages**

SELECTED PROJECTS

Shillings – Web service + Payment APIs

Tech stack: Golang, MySQL, Redis, Nginx, Docker

- Build backend system that mocks **payment service** using **Golang**
- Designed and coded a **custom TCP/IP communication protocol**
- Integrated **NGINX** for load balancing client requests to web server

Detox – Web service + Natural language processing

Tech stack: Python, Tensorflow, Flask, Nginx, AWS

- Trained and deployed a **profanity filtering system** on **AWS**
- Integrated the filtering system on **discord and twitter**

Learnify.AI – Web application + Applied ML

Tech stack: Python, React.Js, MongoDB, Flask, PyTorch

- Build an interactive app to **visualizes notes as knowledge graphs**
- Implemented **keyword extraction** and **notes summarization**

TECHNICAL SKILLS

- **Programming Languages:** Python, Typescript, Go, C++
- **Development:** Git, Shell, React.js, Node.js, Docker, Flask, Nginx
- **Database:** MongoDB, SQL, ETCD, Redis, Elasticsearch
- **Cloud:** Amazon web services, Google cloud platform
- **Machine Learning:** PyTorch, Tensorflow

EDUCATION

Nanyang Technological University (NTU), Singapore.

Bachelor's in Electrical & Electronic Engineering

Jul 2018 - Dec 2022

- Second Major in Business
- Runner-up of design and innovation challenge in EEE cohort

CO-CURRICULARS

Major League Hacking
MLH Explorer Fellow
Feb 2021 - Apr 2021

NTU Open Source Society
Chairperson of TGIFHacks
Aug 2020 - Aug 2021

NTU Electrical and Electronic Engineering Club
Vice President, Student development
Sep 2019 - Sep 2020

Algorithmic Trading Club
Software developer
Jun 2019 - May 2020

RELEVANT COURSEWORK

Software Engineering
Data structures and algorithms
Computer communications
Machine learning
Cybersecurity
Investments
Artificial Intelligence & data mining
Web application design

PUBLICATIONS

Siddesh Sambasivam Suseela & Yang Feng. *A comparative study on Machine Learning algorithms for Knowledge Discovery. 2022.*