Siddesh Sambasivam Suseela

Graduate software engineer & Machine learning practitioner Latest start date: January 2023

RELEVANT WORK EXPERIENCE

Shopee, Singapore - Backend Engineer Intern

October 2021 - March 2022

- Improved vector retrieval speed for product search by 10%
- Developed internal platform to manage 10+ ML model configs
- Setup monitoring using **prometheus** and **grafana** for vector retrieval engines

Datlite, Singapore - Founder & Lead Developer

March 2021 - March 2022

- Acquired funding of \$\$5000 from NTU SCSE Innovation lab
- Managed a team of 6 engineers and 5 business members
- Centralised platform to track ML experiments, models & datasets

NTU, Singapore - Software Engineer

Feburary 2021 - July 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
- Optimized similarity search using FAISS to mine translation pair

SELECTED PROJECTS

Shillings - Web service + Payment APIs

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

- 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 summarization models.

TECHNICAL SKILLS

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

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EDUCATION

Nanyang Technological University (NTU), Singapore.

Bachelor's in Electrical & Electronic Engineering

July 2018 - December 2022

- Second Major in Business
- Specialising in Data Intelligence and Processing.

CO-CURRICULARS

Major League Hacking

MLH Explorer Fellow

Feburary 2021 - April 2021

NTU Open Source Society

Chairperson of TGIFHacks

August 2020 - August 2021

NTU Electrical and Electronic Engineering Club

Vice President (Student development) September 2019 - September 2020

RELEVANT COURSEWORK

Software Engineering
Data structures and algorithms
Computer communications
Web application design
Microprocessors
Cybersecurity
Intelligent system design
Machine learning

PUBLICATIONS

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

Artificial Intelligence & data mining

CONDUCTED WORKSHOPS

An Introduction to PyTorch Natural Language Processing 101 Data cleaning & scraping