

Zhiheng Liu

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SKILLS

- **Programming languages:** Golang, Typescript, Scala, C++, HTML, CSS, Java
- **Framework:** Angular, React, Node.js
- **Others:** Linux, Docker, Kubernetes, Git, Elasticsearch, Agile

EXPERIENCE

SenseTime International Pte. Ltd

Jan 2020 – July 2020

Software Engineer Intern @ International Research and Development Center, AIoT platform software

- Decreased requests to cloud server by 1000x, by developing AIoT database sync module in Golang with a static feature database.
- Fastened feature extraction speed by 500% in no-GPU environment, by optimizing Golang on feature extraction in parallel and deploy multi-pod service on K8S.
- Eliminated manual data collection, by designing and implementing an automatic data collection module in Golang.
- Contributed to firmwide open-sourced AIoT communication platform, by implementing device management module and application management module in Golang.

Goldman Sachs Group, Inc.

July 2020 – Present

Software Engineer Intern @ Core Engineering, distributed scheduling

- Designing a middleware using Scala and Spark which auto rescale the resource allocation to cut cost from idle resources.
- Designing the language-agnostic protocol and implementing service gateway for task scheduling platform to expose a firmwide generic scheduling API.

Narus Knowledge Pte. Ltd

Feb 2019 – Oct 2019

Part-time Software Engineer @ Initial Core Team

- Commercialized an NLP model, by developing a knowledge database system in Angular, Node.js and Elasticsearch, enabling lawyers to fetch, store, analyze and share their knowledge from legal cases.
- Commercialized a fuzzy string search algorithm, by implementing a multi-match fuzzy string searching algorithm to achieve target extraction from long articles.

Visa Inc.

May 2019 – Aug 2019

Software Engineer Intern @ Operation & Infrastructure

- Refactored server monitoring platform with process and file system monitor from graphic programs to Java Activiti.

EDUCATION

Nanyang Technological University

Aug 2017 – May 2021

B.Eng. in Electrical and Electronic Engineering CGPA 4.95/5.00

University of California, Los Angeles

July 2018 – Sep 2018

Study Abroad, Summer Study

PROJECTS

NTUVibe

July 2018 – Jan 2020

- Increased user registration by more than 500, by implementing a schedule generator module and contributing to course content scraper module.

Vedig

July 2019 – July 2020

- Led a team of six on developing a school-sponsored information and event management Flutter/Django full-stack app.

AWARDS

DBS pShift global hackathon

- Won first runner-up prize of 25,000 USD
- Designed, implemented, and pitched a mobile freelancer platform, which promises customer-worker consensus using blockchain.

Consecutive years Dean's List

- YGPA: 4.95 (2017-2018), 4.94 (2018-2019), 5.00 (2019-2020)

Singapore Science and Technology Scholarship

- Full scholarship issued by Singapore MoE