Zhiheng Liu   zaynjarvis@gmail.com   github.com/zaynjarvis

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   *Operating System, Web Development*

WORK EXPERIENCE

Software Engineer – SenseTime International Pte. Ltd   Jan 2020 – Present

- Studied the feature database SFDB and implement an application search proxy by sharing feature matching load from cloud machine to edge device, decrease the single point load by approximately 1000x.   *Golang*
- Improved feature extraction by running extraction in parallel on multicore VM, fasten processing speed by 5x on an 8 core VM provided by customer.   *Golang, Kubernetes*
- Designed and implemented automatic data collection module, decrease staff manual and administrative work to collect data from customers.   *Golang*
- Owned edge management module in internal middleware the AIoT cloud-edge communication platform. Coordinate with two teams to integrate the platform into their product.   *Golang*

Software Engineer – Narus Knowledge Pte. Ltd   Feb 2019 – Oct 2019

- Developed a full-stack automated and intelligent legal knowledge management platform. The product is used by over 400 users in Singapore.   *Angular, Elasticsearch*
- Designed and implemented a multi-match fuzzy string searching algorithm to achieve target extraction from long articles.   *longest common substring, Levenshtein algorithm*

Software Engineer Intern – Visa Inc.   May 2019 – Aug 2019

PROJECTS

NTUVibe   July 2018 – Jan 2020

- Built NTU course schedule generator. Contributed to open source project *NTUVibe* gain more than 1000 hits in peak days, benefiting over 500 NTU students and staff to check course timetable in calendar apps.   *React.js, Python*

Vedig   July 2019 – Present

- Sponsored by school office, led a team to build a school mobile app, with discussion forum, event discovery and anonymous question feature.   *Django, Flutter, Flare, Figma*

CO-CURRICULAR & VOLUNTARY ACTIVITIES

Chair of HackOSS Committee – NTU Open Source Society   Jun 2019 – June 2020

- Organized a community to help over 100 student developers form project groups to learn new skills, solve real-life problems, and improve problem-solving skills.
- Led technical project, conducted technical workshops to help NTU students learn to code.

SKILLS

Golang, Node.js, Python, Java, C++, React, Angular, Flutter, Linux, Docker, Kubernetes

AWARDS & ACHIEVEMENTS

SM2 Scholarship, Dean's List, BAML Code to Connect champion, DBS pShift global hackathon *1st* runner up.