

FENG-YUN (TIM) FAN

San Francisco, California

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Summary

Bay-area-based MSCS student to graduate this December. 8+ months of backend internship experience and 2+ years of programming experience. Open for '23 Summer internship roles and New-grad positions starting '24 Spring.

Education

University of San Francisco

MS in Computer Science GPA: 4.0

August 2021 – December 2023 (Expected)

San Francisco, California

National Chiao-Tung University

BS in Applied Mathematics

September 2015 – June 2020

Hsinchu, Taiwan

Professional Experience

Snaplogic

Software Engineer Intern, APIM team

May 2022 – December 2022

San Mateo, California

Developed a **full stack web application** for automatic log retrieval, gained **150%** speedup on log retrieval process.

- Utilized **Django/DjangoRestFramework** as backend framework, SQLite as the Database, **React** as the frontend library, and **APScheduler** to automate scheduled tasks.
- Implemented unit tests with Django tests for backend API endpoints and handler methods, reached test coverage for more than 90%.

Developed customer tools to be released in future updates.

- Implemented **JSON validation** to validate user JSON spec to create API endpoints in JSON format
- Developed a converter to upgrade customer API spec in **Swagger 2.0** spec format to an **OpenAPI 3** spec.

AlphaInfo

Data Intern on Image Identification

September 2019 – February 2020

Hsinchu, Taiwan

- Worked on a python-based image tagging application, implemented an auto fetch function to boost efficiency by **30%**.
- Collaborated with engineers to provide data related support and automated video data processing with python.

University of San Francisco

Teaching Assistant for System Programming and Computer Networks

Fall 22, Spring 23

San Francisco, California

Projects

Hotel helper | *Java, JavaScript, MySQL, Jetty, Velocity Engine, Bootstrap 5, AJAX*

December 2022

- Developed a **Full stack web application** to emulate the experience of a professional hotel booking website.
- Supports User login, Hotel pagination, Hotel map generation, "Favorites", Hotel booking, Create/Like user reviews.
- Utilized Java/Jetty as backend, Velocity Engine, Bootstrap 5 and JavaScript as frontend, and MySQL as database.

Concurrent Checksum Validator | *C, Go*

May 2022

- Utilized conditional variables in the **pthread library** for C version and **Goroutines with Channels** for Go version.
- Implemented the concurrency model with **Producer-Consumer design pattern**, gained **2x performance** boost.

Music Library System | *Java, SQLite, JUnit, JDBC, Maven, WebAPI*

December 2021

- Developed and designed a **CLI based full-stack application** to perform tasks such as automatic song/album/artist data fetching, create user-defined playlist, and load songs.
- Fetches and parses JSON data from public APIs such as MusicBrainz and TheAudioDB with **json-simple**.

Line Chat Bot | *Python, BeautifulSoup4, Heroku, LineAPI*

August 2020

- Created a chat bot on Line to perform tasks such as get recent weather, news, store availability and dictionary lookup.
- Utilized **BeautifulSoup4** to scrape data from public API and websites, parsed and stored the data in **Python**.
- Provided smart user input, allowing users input certain keywords to trigger events, backend deployed to **Heroku**.

Technical Skills

Languages: Java, Python, C, C++, Go, SQL, JavaScript, TypeScript, Rust

Developer Tools: Vim, IntelliJ, PyCharm, VS Code

Technologies: Docker, Apache Kafka, Linux(Arch, Ubuntu, FreeBSD), GitHub, Travis CI, Agile Development

Frameworks/Libraries: Spring, Django(DjangoRestFramework), React, Angular