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.

Professional Experience

Snaplogic   May 2022 – December 2022
Software Engineer Intern, APIM team   *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   September 2019 – February 2020
Data Intern on Image Identification   *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   Fall 22, Spring 23
Teaching Assistant for System Programming and Computer Networks   *San Francisco, California*

Technical Skills

Languages: Java, Python, C, C++, Go, SQL, JavaScript, TypeScript, Rust
Dev Tools and Environment: Vim, IntelliJ, PyCharm, VS Code, Linux(Arch, Ubuntu, FreeBSD), MacOS
Technologies: Kubernetes, Docker, Microservices, Terraform, AWS, GCP, Azure, GitHub Actions, Agile Development
Frameworks/Libraries: Nodejs, Spring, Django(DjangoRestFramework), React

Education

University of San Francisco   August 2021 – December 2023 (Expected)
MS in Computer Science **GPA: 4.0**   *San Francisco, California*

National Chiao-Tung University   September 2015 – June 2020
BS in Applied Mathematics   *Hsinchu, Taiwan*

Projects

Autonomous Deployer (In Progress) | *TypeScript, Kubernetes, Terraform, AWS, GCP, Azure*   February 2023
- Developed an application that provides hassle-free deployment of containerized applications of different structures.
- Created scripts to perform **IaC** provision of cloud infrastructure using **Terraform CLI** and terraform files
- Created scripts to automate deployment and setup of **K8s** deployment/service yaml file to **EKS**, **GKE**, **AKS**
- Developed backend in Typescript + Nodejs and Amazon RDS as the database

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.

Command Line Shell | *C, Rust*   May 2022
- Created two command line shell supporting tab-autocomplete, command history, pipeline commands, and i/o redirection
- Utilized the GNU readline library and implemented a list data structure in C for supporting history commands.
- Utilized rusty-line module to support command history and tab completion for Rust version.

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**.