

# Yun-Chi Pang

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## EDUCATION

### Northeastern University, Khoury College of Computer Sciences

San Jose, CA

M.S. in Computer Science | GPA 3.958

05/2025

Coursework: Data Structures & Algorithms, Object-Oriented Design(Java), Computer Systems(C), Database Management(Python), Cloud Computing(AWS), Mobile Application Development(Java), Distributed Systems

## SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C, SQL

Frameworks & Libraries: React, Next.js, Node.js, NestJS, Django, FastAPI, Spring Boot, WebSocket, Selenium

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Redis, Prometheus

Cloud & Infrastructure: AWS, Google Cloud Platform, Docker

DevOps & Version Control: Git, GitHub Actions, CI/CD

## WORK EXPERIENCE

### Software Engineer Intern

09/2024—present

Greenstand

Anchorage, AK (Remote)

- Led an enhancement project for the maps platform, utilizing **Express.js**, **Next.js**, and **Airflow** to refine geospatial visualizations with dynamic tiles and markers, reducing page load time by 20% and improving user engagement.
- Developed a scalable microservices for the Wallet **API** in **Node.js** and **PostgreSQL**, ensuring secure transactions for environmental data trading. Migrated code to **TypeScript** in **NestJS**, improving codebase maintainability by 25%.
- Increased test coverage to 95% with unit and integration tests in **Jest**, reducing bugs by 10%.
- Automated **CI/CD** pipelines with **GitHub Actions**, benefiting 120+ engineers and reducing deployment issues by 5%.
- Drove cross-functional collaboration across time zones, streamlining code reviews and issue tracking, improving code quality by 15% and accelerated feature releases by 10%.

### Software Engineer Intern

07/2023—10/2023

OurDate

San Francisco, CA (Remote)

- Built a **Django REST API** with **MySQL** and **JWT authentication**, improving security and scalability by 30%.
- Boosted user retention and satisfaction by 20% for 100+ active users with an end-to-end plan sharing feature.
- Enhanced **API documentation** using **Postman**, which led to a 20% reduction in user-reported issues and improved the developer onboarding process, reducing response times to API-related support tickets by 15%.
- Led 6+ weekly code reviews, offering feedback and finding bugs, contributing to smoother releases and team growth.

### Data Engineer

01/2022—06/2022

Dashmote, Sourcing

Shanghai, China

- Developed web scrapers using **Scrapy**, processing 1M+ records from 5+ platforms using **Python pandas**, **NumPy** and **Jupyter Notebook**, improving data quality and collection efficiency by 15%.
- Automated data pipelines with **AWS S3**, **ECS**, **Lambda**, and **EventBridge**, boosting data processing efficiency by 90% and enabling seamless integration for large-scale data storage.
- Boosted data coverage from 89% to 95% by investigating sparse latitude and longitude coordinates and enriching them with updated geospatial data using **SQL** and the **Google Places API**.

### Operations Intern

09/2020—07/2021

ShopBack, Merchant Ops

Taipei, Taiwan

- Streamlined merchant onboarding by integrating **APIs**, reducing setup time by 10% and improving partner satisfaction.
- Automated campaign performance tracking using **Python**, **Selenium**, **Google Sheets API** and **GCP**, driving a 1% weekly partner growth and reducing support requests by 98%.
- Developed automated **JavaScript** solutions in **Google Tag Manager** for seamless tracking pixel integration, supporting 50+ partners with improved tracking accuracy and faster onboarding.

## SELECTIVE PROJECT

**VocaBoost**: Vocabulary Learning App — React Native / Spring Boot / MongoDB / AWS / Docker

04/2023

- Developed an analytics server with **Spring Boot**, **MongoDB** and **Prometheus** to store app's event history and monitor user behavior. Utilized **WebSocket** for real-time updates. Hosted backend on **AWS EC2** with **Docker**.
- Implemented responsive user interfaces in **React Native** for 5+ devices, and achieved 1000+ downloads on App Store.