




YUN-CHI PANG

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EDUCATION

Northeastern University, Khoury College of Computer Sciences

San Jose, CA

Master of Science, Computer Science | GPA 4.0

Sep 2022—Dec 2024 Expected

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Operating Systems

The Chinese University of Hong Kong

Hong Kong

Bachelor of Business Administration, Business Analytics & Quantitative Marketing

Sep 2017—Dec 2021

WORK EXPERIENCE

Software Engineer Intern (full-stack)

July 2023—Oct 2023

OurDate

San Francisco, CA (Remote)

- Developed a **Django REST Framework** + **MySQL** backend API, with user authentication using **djoser** and **JWT**, including documentation, resulting in improved security and ease of access for users.
- Created a **React** frontend for the startup's early-stage product, ensuring a smooth authentication flow using contexts and hooks. Enhanced code quality and consistency by implementing **ESLint & Prettier**.
- Boosted user engagements by 50% by building an **end-to-end** date plan sharing feature. Designed backend views and established data transmission to frontend routes, enabling sharing via links between partners.
- Integrated **Stripe** for payments and subscriptions. Integrated **Slack API** with **webhooks** to alert channels, and leveraged **Rollbar** for production error logging, leading to an 80% boost in debugging efficiency.
- Demonstrated leadership skills through 6+ weekly **code reviews** on team members' pull requests on **GitHub**. Offered guidance in writing descriptions and tests to facilitate prompt issue resolution and efficient CR.

PROJECTS

VocaBoost (Vocabulary Learning Mobile App) <https://www.vocabularyboost.com/>

Co-founder, Backend Developer, Mobile App Developer

- Built an **Android & iOS app** with **React Native**, **Expo**, **Babel**, and **NativeBase**. Integrated **OAuth 2.0** and **OpenID Connect**, utilized **WebSocket** for real-time updates. Hosted backend on **AWS EC2** with **Docker**, resulting in a versatile, secure, and scalable mobile application.
- Developed an **analytics server** with **Java Spring Boot**, **MongoDB** and **Prometheus** to store app's event history and monitor user behavior. Integrated **Grafana** for real-time data visualization, facilitating informed decision-making based on user behavior and app performance.
- Implemented responsive user interfaces for **5+** devices, enhancing user experience and accessibility. and achieved **1000+ downloads** on App Store, demonstrating the app's popularity and widespread adoption.

MoveMakers (Web API + iOS App for dancers) <https://api.movemakers.app/>

Full-Stack Developer, iOS Developer

- Developed a **RESTful API** leveraging **FastAPI**, **SQLAlchemy**, **PostgreSQL** and **Docker**. Implemented **CI/CD** workflows using **GitHub Actions** for automated deployment on cloud hosting infrastructure.
- Created an **iOS app** with **Swift & SwiftUI**, tailored for dancers to upload & download footages after classes or performances. Improved video sharing efficiency across individuals and teams by 75%.
- Crafted a web frontend using **Next.js** hosted on **Vercel**, offering an extensive set of API documentation and detailed web & app instructions, which contributed to 20% reduction in user queries related to API usage.

SKILLS

Programming Languages: Java, Python, JavaScript, C, Swift, HTML, CSS

Frameworks: Spring Boot, Django, Flask, React, React Native, Node.js, Express.js, Scrapy, Selenium

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Prometheus

Infrastructure: AWS, Google Cloud Platform, Docker

Operating Systems: Linux (Ubuntu), Unix

Networking: TCP/IP, HTTP, SSH, DNS