




# 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

- Developed a **Django REST Framework** + **MySQL** backend API, with user authentication using **djoser** and **JWT**, including documentation. Supported server's **CI/CD** pipeline on **AWS Beanstalk**.
- 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**.
- Built an **end-to-end** date plan sharing feature, boosting user engagements by 50%. Designed back-end views and established data transmission to frontend routes, enabling sharing via links among partners and friends.
- Implemented **Stripe** for payments & 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, back-end developer, mobile app developer*

- Created 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**.
- Developed an **analytics server** with **Java Spring Boot**, **MongoDB** and **Prometheus** to store app's event history and monitor user behavior. Integrated **Grafana** for realtime data visualization.
- Implemented responsive user interfaces for **5+** devices, and achieved **1000+ downloads** on App Store.

**MoveMakers** (a web API + an iOS app for dancers) <https://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