




# 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, OurDate**

July 2023—Oct 2023

- Developed a **Django REST Framework** backend API, with user authentication using **djoser** and **JWT**, including documentation. Configured admin-accessible AI service prompts for A/B testing by non-engineers.
- Created a **React.js** frontend for a 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' PRs on GitHub, providing guidance in testing to ensure early issue resolution. Supported **CI/CD** pipeline on **AWS Beanstalk**.

**Data Engineer, Dashmote**

Jan 2022—June 2022

- Developed web scrapers using **Scrapy** to extract raw data from 5+ delivery platforms. Processed extensive datasets (1M+ records) using **Python, Pandas, SpiderKeeper, Jupyter Notebook** and **AWS S3**.
- Collaborated with cross-functional teams to investigate low-quality data. Resolved issues via **SQL** queries, improving data accuracy by 9% through **Google Places API** research and experimentations.
- Automated data collection through **AWS S3, ECS, Lambda** and **EventBridge**, boosted efficiency by 90%.

## PROJECTS

**VocaBoost** (vocabulary learning mobile app) | <https://www.vocabularyboost.com/>

- 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 + a iOS app for dancers) | <https://www.movemakers.app/>

- Developed a dockerized **RESTful API** using **FastAPI, SQLAlchemy, PostgreSQL**, and **alembic** for database migration. Implemented **CI/CD pipeline** using **GitHub Actions** for deployment on DigitalOcean.
- 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%.

## SKILLS

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

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

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Prometheus

Infrastructure: AWS, Google Cloud Platform, Docker

Operating Systems: Linux (Ubuntu), Unix

| Networking: TCP/IP, SSH, DNS