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) | c*o-founder, full-stack developer*

- Created an **iOS & Android 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) | *full-stack web developer, iOS developer*
- 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