YUN-CHI PANG

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GitHub | Website | LinkedIn

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: Discrete Structures; Object-Oriented Design in Java; Data Structures, Algorithms, and Their Applications within Computer Systems; Mobile App Development

The Chinese University of Hong Kong   Hong Kong, China

Bachelor of Business Administration, Business Analytics & Quantitative Marketing   Sep 2017—Dec 2021

Relevant Coursework: Intro to Computing Using Java; Intro to Python; Network and Security; Business Information Systems; Marketing Engineering

SKILLS

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

Frameworks/Libraries: React, React Native, Node.js, Express, Django, Flask, Scrapy, Selenium

Infrastructure: AWS, Docker

Database: MySQL, PostgreSQL, SQLite, MongoDB, Firebase

Tools: Bash, Zsh, Vim, Git, Postman

PROJECTS

VocaBoost (vocabulary learning application)

Co-founder, co-developer for iOS app

- Created an **iOS app** with **React Native, Expo, Babel,** and **NativeBase**, hosted on **AWS** with **Docker**
- Implemented responsive user interfaces and features, and achieved over **1000 downloads** on App Store

PawPal (pet-focused social media application)

Team lead, full-stack developer

- Built an **Android App** using **Java**, designed database schema, and integrated **Firebase** for data storage, user authentication and realtime messaging
- Implemented search feature on an interactive map by integrating **Google Maps SDK for Android** and **Google Places API** to access realtime user location, and allow users to discover nearby pet-related services

Choreography Library (choreography managing API)

- Developed an API with **Python** using **Django REST Framework,** hosted on **AWS EC2** with **Docker**
- Implemented user registration, user login, and CRUD operations to manage records efficiently

WORK EXPERIENCE

Data Engineer, Dashmote   Jan 2022—June 2022

- Developed web scrapers based on **Scrapy** to gather raw data from 5 delivery platforms. Processed large-scale datasets comprising millions of records using **Python,** and delivered them to clients on a monthly basis
- Utilized cloud computing services and containers (**AWS S3, ECS, Lambda, EventBridge**) to automate data collection, resulting in a 90% increase in time efficiency
- Investigated low quality data, identified issues using queries against **MySQL** and **Amazon Athena** to resolve client requests
- Collaborated with an engineering team of 7 on **GitHub** across 6 repositories, and worked with cross-functional teams to deliver data with high completeness

Operations Intern, ShopBack   Sep 2020—Jul 2021

- Integrated **APIs** via TUNE partner marketing platform to streamline data management
- Constructed customized **JavaScript** in **Google Tag Manager** to support integration via tracking pixels and provided technical consultation to partners
- Formulated **Python**-based automation tools to scrape external websites and provided data for business teams, supporting 1% weekly growth in partner numbers
- Developed tools and documentations, provided training to internal teams on how to use the integrated system, resulting in a 92% decrease in support requests and 95% decrease in human error