Yunchi Pang

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EDUCATION

Northeastern University, Khoury College of Computer Sciences   San Jose, CA

M.S. in Computer Science | GPA 3.958   May 2025

SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C, SQL
Frameworks & Libraries: React, Next.js, Node.js, NestJS, Django, FastAPI, Spring Boot, WebSocket, Selenium
Databases: MySQL, PostgreSQL, MongoDB, Firebase, Redis
Cloud & Infrastructure: AWS, Google Cloud Platform, Docker
DevOps & Version Control: Git, GitHub Actions, CI/CD, Prometheus

WORK EXPERIENCE

Software Engineer Intern   Sep 2024—present

Greenstand   Anchorage, AK (Remote)

- **Designed** and **developed** features for the Tree Tracker Maps platform using **Next.js** and **Leaflet**, enhancing geospatial visualization with dynamic tile layers and custom markers, boosting real-time data representation.
- **Improved platform stability** and boosted user engagement by 12% through resolving critical bugs.
- Developed microservices for the Wallet **API** in **Node.js** and **PostgreSQL**, ensuring secure transactions for environmental data trading. Migrated code to **TypeScript** in **NestJS**, improving maintainability by 25%.
- Conducted unit and integration tests with **Jest**, increasing test coverage to 95%, and reducing bugs by 10%.
- **Automated CI/CD pipelines** with **GitHub Actions**, reducing deployment-related issues by 5%.

Software Engineer Intern   Jul 2023—Oct 2023

OurDate   San Jose, CA (Remote)

- Built a **Django REST API** with **MySQL** and **JWT** authentication, improving security and scalability by 30%.
- Boosted user engagement by 20% with an end-to-end plan sharing feature, driving retention and satisfaction.
- Enhanced **API documentation** in **Postman**, reducing user-reported issues by 20%.
- Led 6+ weekly **code reviews** on **GitHub**, improving code quality and reducing bugs by 10%.

Data Engineer   Jan 2022—Jun 2022

Dashmote, Sourcing   Shanghai, China

- Developed web scrapers using **Scrapy**, processing 1M+ records from 5+ platforms using **Python pandas, NumPy** and **Jupyter Notebook**, improving data quality and collection efficiency by 15%.
- Automated data pipelines with **AWS S3, ECS, Lambda,** and **EventBridge**, boosting data processing efficiency by 90% and enabling seamless integration for large-scale data storage.
- Boosted data coverage from 89% to 95% by investigating sparse latitude and longitude coordinates and enriching them with updated geospatial data using **SQL** and the **Google Places API**.

Operations Intern   Sep 2020—Jul 2021

ShopBack, Merchant Ops   Taipei, Taiwan

- **Streamlined merchant onboarding** by integrating network **APIs**, reducing setup time by 10%.
- **Automated campaign performance tracking** using **Python**, **Selenium**, **Google Sheets API** and **GCP**, driving a 1% weekly partner growth and a 98% reduction in support requests.
- Developed automated **JavaScript** solutions in **Google Tag Manager** for seamless tracking pixel integration, supporting 50+ partners with improved tracking accuracy and faster onboarding.