

# ZHHAO WANG

+(86) 156-0092-9892 | [wangzhihao0629@gmail.com](mailto:wangzhihao0629@gmail.com) | [linkedin.com/in/zhihao-wang](https://www.linkedin.com/in/zhihao-wang)

## EDUCATION

---

### China University of Mining and Technology, Beijing

Beijing, China

*Bachelor of Science in Information and Computing Science*

Sept 2013 – June 2017

- Selected courses: Advanced Algebra, Probability Theory, Discrete Mathematics, Data Structures and Algorithms, Operations Research, Mathematical Modeling, Database Theory, Object-oriented Programming and Applications

### Peking University

Beijing, China

*Bachelor of Economics*

Sept 2014 – July 2017

- Ranked 33rd among 2000+ applicants in the program entrance exam and received The Second Prize Scholarship.
- Selected courses: Econometrics, Intermediate Microeconomics, Intermediate macroeconomics, Game Theory

## PROFESSIONAL EXPERIENCE

---

### App Annie

Beijing, China

Senior Backend Software Engineer & Scrum Master

Feb 2018 – Present

Responsible for the technical design, development and maintenance of first-party data platforms that help customers manage apps' downloads, revenue, usage and advertising data.

- **Scrum & Agile Project Management**
  - Lead a Scrum team of 6+ and facilitate the team's progress toward team goals.
  - Coordinate with external teams including Product, Technical Operation, Support in different time zones, and host sprint planning meetings, daily Scrum meetings to manage project, and retrospectives to help the team locate issues.
  - Skilled in using project management tools for tracking progress and quantitative analysis.
- **Connection Workflow**
  - Transformed Connection Workflow by migrating and refactoring connection workflows of 30+ platforms from monolithic app to microservices as technical designer and developer.
  - Significantly improved user experience by reducing time cost and improving success rate by 30%, as well as enhancing internal monitoring and troubleshooting tools.
- **Connect Universal Dashboard**
  - Migrated the 9-year-old legacy product from a Django monolithic app to microservices architecture (Flask).
  - Built data services on top of apps' sales, usage and advertising data stored in PostgreSQL & MongoDB.
- **Google Firebase Integration**
  - Designed the Firebase user authentication with Google 2-Step Verification, browser-based scraping tasks, ETL processes and backend service for data visualization and data delivery.
  - Implemented the workflow of user authentication and scraping tasks for CSV report download, making App Annie the first company to support Firebase integration in the industry at that time.
- **App Store Source Analysis Report**
  - Implemented scraping tasks for new source of data from Apple Store Connect and Google Play Store, and updated backend services to support new source of data.
  - Learned React from scratch and built a new visualization report within 4 weeks.
- **Best Engineering Excellence Award in App Annie Hackathon**
  - Build a live demo of *App Annie Distributed Configuration Management System* within days.
  - The app allows engineers to easily manage service configurations of various environments with user-friendly UI, which is helpful for project management, auditing and debugging, increasing efficiency, stability and visibility into changes that occur in an application.
- **App Annie Ascend Hybrid UI**
  - Built *App Annie Ascend* user interface from scratch using React including dashboards, connection management, user management using React, during which I worked as a Full-Stack Software Engineer with multiple teams in Vancouver, San Francisco and Brazil.
- **AWS re:Invent & Knowledge Sharing**
  - Selected as the youngest attendance to AWS re:Invent 2019 and gave internal knowledge sharing sessions with respect to topics on Event-Driven Architecture and Serverless Computing.

## VIPKID

Backend Software Engineer

Beijing, China  
July 2017 - Feb 2018

- **Dino English App & WeChat Platform**
  - Built backend services for VIPKID Dino English App and its WeChat platform in Flask.
  - Established an asynchronous task system based on Celery from scratch for updating students' statistical data.
- **VIPKID Song App & VIPKID School**
  - Built backend services for VIPKID Song App and VIPKID School in Sprint Boot.
  - Designed and developed core business logic of learning resource management and course booking management.
  - Constructed micro-services architecture for backend service migration from a monolithic app.

## VIPKID

Backend Software Engineer Intern

Beijing, China  
Aug 2016 - July 2017

- Supported VIPKID's core business, including parents booking courses, students downloading learning materials, etc., for iOS/Android applications based on Python, gRPC framework, Protocol Buffers.
- Built an internal ticket system to help send request for application change, database change, testing.

## ADDITIONAL PROJECTS

---

### Peking University Black Market

Founder & Developer

Beijing, China  
Dec 2016 - Feb 2018

- Developed a third-party information exchange platform to facilitate course swapping among undergraduate students at the National School of Development at Peking University.
- The emergence of Black Market made a splash and “daily site visits to Black Market surged to 4,000 and peaked at 6,000 when the class dropping and re-selection period began,” *Peking University Student Opens Course Trading ‘Black Market’* reported.

### CHARLS & Socio-economic Survey Data Analysis

Interviewer & Researcher

Beijing, Shandong & Tianjin, China  
May 2015 - Dec 2015

- Collected microdata in the field via interviews for the *China Health and Retirement Longitudinal Study* to serve the needs of scientific research on the elderly.
- Analyzed collected data using Stata, and published a paper, Zhihao, Wang., and Xinheng, Wu. (2016, September 14). Factors affecting people over the age of 45 participating in the new rural pension. *Global Market Information Guide*, 2016(25), 15-16.

## COURSE CERTIFICATES

---

Neural Networks and Deep Learning	deeplearning.ai
Structuring Machine Learning Projects	deeplearning.ai
Improving Deep Neural Networks	deeplearning.ai
Introduction to Recommender Systems	University of Minnesota
HTML, CSS and JavaScript	HKUST
Machine Learning	Stanford University

## SKILLS

---

**Programming Languages:** Python, Javascript, Java, SQL

**Data Storage:** MySQL, PostgreSQL, MongoDB, Redis, Amazon S3, Snowflake

**Frameworks:** Flask, Django, React, Spingboot

**DevOps:** Docker, Sentry, Kibana, New Relic, Datadog

**Project Management:** Jira, Trello, Asana, G Suite

**Languages:** Native proficiency in Mandarin and full professional proficiency in English