Zhihe **Jing**

Data Engineer · Fullstack (Python+React) Developer

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"Abstraction is the key to solve complexity."

Summary

Current site data engineer at Procter & Gamble Beijing R&D. 2+ years experience specializing in backend development. Excellent technical and communication skills. Possessing strong technical skills rooted in substantial training as an engineer and dedicated to constructing data pipelines. Always excited about challenging tasks and new technologies.

Work Experience

Procter & Gamble   *Beijing, China*
Data Engineer   *Jul 2020 —Present*

- Built and optimized data pipelines to fetch, extract, process, and store data from all kinds of data sources: csv/Excel, videos, images, audios, PowerPoints, and third-party data APIs.
- Designed and built Django/Flask API servers with Docker, integrated in-house machine learning/deep learning models into processing pipelines.
- Designed and built ReactJS/server-side rendering frontend. implemented features like basic CRUD, OAuth authentication, single/batch upload, video and metadata manipulaion, dynamic wordcloud, etc.
- Maintained API documents using Swagger and wrote testing and migration scripts.
- Deployed a centralized monitoring environment(on-premise Sentry), which gathers the system metrics and obtains bug reports and preformance measures.

LeQi Technology Co., Ltd.   *Wuxi, China*
Python Backend Developer of App *IDPhoto*   *Jan 2019 —Jun 2019*

- Built and deployed APIs for location-based lottery campaigns using Flask, integrated payment SDKs, and built admin dashboards to visualize sales data and consumer demographics.

Unisoc Communications, Inc   *Nanjing, China*
Junior Software Engineer   *Apr 2017 —Dec 2018*

- Developed and maintained native applications with SAF(Storage Access Framework), SELinux integration.

Projects

Image Analysis Platform   *Procter & Gamble*

- a Django + React web service: RESTful API server using Django and React+TypeScript frontend.
- Automate data extractions from all kinds of data source, csv, ppt, external data APIs, etc
- Extract features from images using either in-house or external services, run cluster algorithms based on the images at the server side
- Provide interactive and complex visualizations for images, wordclouds, clustering, etc
- Provide django cli tool to fetch images from online image repos.

Video Analysis Platform   *Procter & Gamble*

- Built React / Material UI interfaces: batch upload, video and tag timeline, and analysis dashboards.

Education

National University of Singapore   *Singapore*
M.Tech in Enterprise Business Analytic   *July 2019 —June 2020*

Syracuse University   *Syracuse, United States*
B.S. in Computer Science and Engineering   *Sept 2012 —May 2016*

Skills

Programming	Python, React, R, Java, LaTeX, Bash, Scala
Tools	Docker, Git, PowerBI, Tableau, Spark, SQL, Linux
Preferred	Django, Flask, Celery, ReactJS, TypeScript, RabbitMQ, Redis, ElasticSearch, Sentry, Machine learning frameworks
Others	Machine Learning, Data Visualization, Statistical Knowledge, Problem Solving
Languages	English, Chinese