Haizhi Geng

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🎓 Education

Beijing University of Posts and Telecommunications, Undergraduate   09/2017 – Present
- Major: Computer Science and Technology, School of Computer. Anticipated graduation date: 06/2021

👥 Work Experience

ByteDance Inc., Beijing, China   09/2019 – 04/2020

(App Back-end Research & Develop)   R&D Intern, Golang/Python
- Responsible for App R&D work related to vertical business, using Golang/Python language, Thrift and other tools for microservice development and maintenance.
- Participated in R&D work of UGC and live broadcast, had cross-departmental cooperative development experience with Toutiao, Douyin and Watermelon Video.
- Learned a lot about Web development and DevOps.

AWS Chine Inc., Beijing, China   05/2020 – 06/2020

(Solution Architecture)   Solution Architect Intern
- Responsible for the communication with business customers, build AWS architecture meets their needs, and provide them with mature cloud architecture solutions.

PingCAP Inc., Beijing, China   06/2020 – Present

(Database R&D)   Scheduling R&D Intern
- Responsible for the development of TiDB's scheduling component PD.
- Learned a lot about Distributed System.

🐙 Portfolios

Infomatter

Information aggregation system based on machine learning
- Won the first prize of the BUPT Innovation and Entrepreneurship Competition, certified as the city-level innovation.
- Developed and maintained RESTful API service.
- Implemented the front-end and back-end services for Infomatter Web.
- Main language and framework used are Node.js + Express.

raft-kv(W.I.P)   https://github.com/JmPotato/raft-kv

Distributed key-value database based on Raft and Percolator models
- Learned from MIT 6.824 and PingCAP's Talent Plan.
- Implemented Raft distributed consensus algorithm and Google Percolator transaction model in Rust.

Pomash   https://github.com/JmPotato/Pomash

Lightweight blog system based on Tornado Web Framework
- Based on Tornado Web Framework, use Sqlite3 to store data, separated front-end and back-end models, have certain scalability.
- Support Markdown syntax, LaTeX formula rendering, themes changing, Dropbox backup and other functions.

dopamine   https://github.com/JmPotato/dopamine

Python Web Framework
- Based on WSGI of PEP 3333.
- Use the gevent library to provide fast network IO performance.
- Use Flask-like router and HTTP wrapper.

⚙ Skills

- **Programming Language**: **multilingual** (not limited to any specific language), experienced in Golang/Python, comfortable with Rust/JavaScript/C/C++
- **Distributed System/Database**: taken course MIT 6.824 and PingCAP's Talent Plan, understand the basic theory of distributed system/database, including but not limited to algorithms such as Raft and Percolator.
- **Developing Tool**: familiar with Linux-based programming, have experience with team tools like Git, Slack, Trello, etc.

- **Others**: have experience using MySQL/Redis/Kafka, understand Docker and Docker orchestration concepts, have experience in developing digital currency quantitative trading strategy, solved JobShop problem with genetic algorithm.

ⓘ Miscellaneous

- Personal tags: self-driven, quick learner, earnest curiosity, open source lover.
- Interests: Distributed System, Database, Cloud and Web application.
- Open-source Contributions: contributed to `@rust-analyzer @tikv @tidb @talent-plan @etcd`, etc.
- Selected Courses: OS, Network, Database, Algorithm, Compiler Principle.
- Language Level: English CET-6, able to conduct daily conversation and essay reading.