Fulong Ma

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ⓘ PERSONAL INFORMATION

- Male, born in 1997
- Job hunting intention: Back End SWE
- Work experience: 2.5 years

🎓 EDUCATION

- Central South University (985), Bachelor of Computer Science, Sep 2015 – Jun 2019
- GPA: 3.64/4.0 Top 10%, English: CET6
- Honors/Awards: National Encouragement Scholarship (Top 2% of Department), The First Prize Scholarship (Top 5% of Department), Outstanding Graduates (Top 5% of Department), The Provincial First Prize in Mathematical Modeling in China.
- Others: Published a SCI paper named 《A Time and Location Correlation Incentive Scheme for Deeply Data Gathering in Crowdsourcing Networks》 , as the first author in 2016.

💼 PROFESSIONAL EXPERIENCE

- **BYTEDANCE**, Back-End Software Engineer, *Shanghai, Nov 2018 – NOW*
  • Participated in the design and development of the Notice System (TPS > 1e6) in TikTok (DAU: 600 million), technically assisting others to integrate Notice, leading to construction of multiple IDCs, etc.
  • Back-End Development for the ToC product app in education field, named "DALI", supported the sales from 0 to 20w+, designed the content manage system CMS, which effectively supports the learning module in app, and improved the long-term retention of product users.
  • Designed the code tool to generate Golang code by configuration such as the code generation of CRUD, which improved development efficiency and was used in the department.
  • Promoted the landing of Golang's unit testing. Outputed the best practice in UT, viewed by nearly 3k engineers in company. After invited by the company's technical college to open the course "Unit Testing" as a lecturer, feedback from the students exceeded expections.

🛠 Selected Project Experience

- TikTok Notice (Bytedance)
  • Participated in the development of the Notice System in TikTok. Played a leading role in the construction of multiple IDCs. As the owner of TTP Project (Oracle as the trusted service provider), successfully carried out the master-slave synchronization, split-brain, traffic swithcing, etc. In Addition, continuously optimized the system, such as increasing degradation capability, etc.
- Content Manage System (Bytedance)
  • As the owner, designed the CMS system to PGC and support users' learning. As the most basic unit of access, the Activity was driven by BPM, which not only present the content, but also support some actions such as taking videos to publish UGC. Solved the multi-version problem and added preview ability in advance by separating storage separation, etc.

🛠 PROFESSIONAL SKILLS

- Programmer Languages: Golang (Frequent), Python/C++/Java (Basic, once used).
- Mysql (Frequent), Redis (Frequent), Kafka (Frequent), Elastic-Search (Basic).
- Understand common network protocol, such as Http, WebSocket, Quic.