Yanan Xie

http://www.lorabit.com

Email : lorabit@me.com
Mobile : +1-831-346-9038

EXPERIENCE

- **Google** Mountain View, California
  Software Engineer *Mar 2019 - Current*
  - **Conversation Engine**: Developing a conversational vertical solution.
  - **Document Understanding Infra**: Building the infrastructure for supporting document understanding at scale.

- **Rulai** Campbell, California
  Senior Research Engineer *Feb 2018 - Mar 2019*
  - **Multi-Round Conversational Database Querying**: Designing and developing an easy-to-use product for designing data querying chatbot with dynamic flows.
  - **Question Answering with Knowledge Graph**: Exploring the latest natural language processing and machine learning techniques to build Rulai's knowledge graph module enabling chatbots to answer questions based on knowledge graphs.
  - **Vertical Library Creation**: Building tools to collect data for creating vertical libraries.

- **Google** Mountain View, California
  Software Engineering Intern *Jun 2017 - Sep 2017*
  - **Data Migration**: Designed the process to migrate a table that was heavily used by multiple products from a Google's internal KVS to another internal DBMS - Spanner with zero downtime. The table serves several applications with different data consistency requirements. Developed and launched an independent service that is used as an intermediary layer between applications and database to hide database migration process from applications.
  - **Data Processing**: Used Google's processing tools to process massive log data.

- **Hangzhou From Network Technology** Hangzhou, China
  Software Engineer *Aug 2015 - Aug 2016*
  - **Prototyping**: Fast built an MVP(a hybrid app) in days to verify key business assumptions.
  - **Leadership**: Successfully led the iOS dev team of 3 delivering high-quality apps on time. Provided data structure and algorithm training to all engineers inside the company.
  - **ORM Component**: Developed a thread-safe ORM component WMCache based on SQLite3 and Objective-C runtime methods. It is still used as a fundamental component in apps developed by WithMe.
  - **Data Synchronization**: Designed the basic data synchronization strategy, and implemented a multi-observer listener component which has significantly reduced the complexity of data logic, and is still used as a fundamental component.

- **Taobao** Hangzhou, China
  Software Engineer *Jun 2014 - April 2015*
  - **Crowd-Sourcing Data Labeling System**: Built the whole system including the front end and back end. Implemented a random pre-assignment mechanism to implement a high-performance task distribution system, handling over 1,000,000 labeled data per day with a single server.
  - **Search Engine Debug and Test Toolbox**: Built several internal tools including stress simulation, search engine pipeline visualization and search result evaluation for search algorithm and machine learning teams.

EDUCATION

- **University of California, Santa Cruz** Santa Cruz, CA
  Master of Science in Computer Science; Advisor: Prof. Yi Zhang *Sep. 2016 – Dec. 2017*

- **Zhejiang University** Hangzhou, China
  Bachelor of Engineering in Computer Science; Advisor: Prof. Jian Wu *Sep. 2010 – June. 2014*

SKILLS

- **Data Science** : Industrial experience with PyTorch and TensorFlow. Demos/papers accepted to top conferences like SIGMOD, CIKM, WWW, PAKDD.
  Full-Stack Development: Unix/Linux, MySQL, MongoDB, Redis, PHP(Yii), NGINX, Java(Guava, Guice, Spring), gRPC(protobuf), Git, Docker, Jenkins, JavaScript(Vue.js, Koa), Photoshop, Objective-C.
  Product Management: Hands-on experience applying Lean Startup methodology to develop product iteratively and search for product/market fit.