Yanan Xie

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EXPERIENCE

Rulai — Campbell, California
Staff AI Research Engineer — *Feb 2018 - Present*

- **Multi-Round Conversational Database Querying**: Designing and developing an easy-to-use product for designing data querying chatbot with dynamic flows. (as eng owner)
- **Question Answering with Knowledge Graph**: Exploring the latest natural language processing and machine learning techniques to build Rulai's knowledge graph module enabling AI 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 (I did get my return offer) — *Jun 2017 - Sep 2017*

- **Data Migration**: Designed the process to migrate a table that was heavily used by multiple products from Google's internal KVS - Kansas to another internal DBMS - Spanner with zero downtime. The table serves several applications with different data consistency requirements. Developed and launched an independent service from scratch with several Google technologies - Apps Framework, Boq, Guice, Kansas, Protocol Buffer, Spanner. The service is used as an intermediary layer between applications and database to hide database migration process from applications.
- **Data Processing**: Used Google's planet-scale data processing tools to process massive log data.

WithMe(Early Stage Startup) — Hangzhou, China
Founding Full-Stack Engineer, Team Leader — *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.

Alibaba — Hangzhou, China
Software Development Engineer (Top 10% performers) — *Jun 2014 - May 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.

University of California, Santa Barbara — Santa Barbara, CA
Visiting Student — *May 2013 - Oct 2013*

- **Natural Language Parser**: Built a knowledge-graph-based natural language parser for parsing nested sentences.
- **Open Information Extraction**: Constructed knowledge graphs from witness statements by using named entity recognition, coreference resolution, and the parser.
- **Quering Knowledge Graphs**: Developed an interactive knowledge graph explorer and a graph query composer with JavaScript and Java. Published a demo paper in SIGMOD 2014.

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

- **AI and 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.