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EXPERIENCE

Rulai Campbell, California Senior AI Research Engineer Feb 2018 - Present

- o 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 Software Engineering Intern (I did get my conversion offer)

Mountain View, California

Jun 2017 - Sep 2017

- o 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.
- o 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.
- o 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.

Hangzhou, China

Software Development Engineer (Top 10% performer)

Jun 2014 - May 2015

Santa Barbara, CA

- o 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.
- o 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

May 2013 - Oct 2013

Visitina Student

- o Natural Language Parser: Built a knowledge-graph-based natural language parser for parsing nested sentences.
- o 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.is, Koa), Photoshop, Objective-C.

Product Management: Hands-on experience applying Lean Startup methodology to develop product iteratively and search for product/market fit.