Yanan Xie

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Education

- **University of California, Santa Cruz** — Santa Cruz, CA
  Master of Science in Computer Science; Advisor: Prof. Yi Zhang — *Sep. 2016 – Dec. 2017(expected)*
  - **Major courses:**: Algorithm Analysis, Image Processing and Computer Vision, Design Database Systems, Data Mining
- **Zhejiang University** — Hangzhou, China
  Bachelor of Engineering in Computer Science; Advisor: Prof. Jian Wu — *Sep. 2010 – June. 2014*
  - **Major courses:**: C Programming, Database System, Data Structure, Artificial Intelligence, Software Architecture

Experience

- **Google** — Mountain View, California
  Software Engineering Intern — *Jun 2017 - Sep 2017*
  - **Database Migration**: Designed and built a service in Java based on Google's internal microservices platform - Boq, as an intermediary layer between applications and database to hide database migration process from applications.
  - **Data Processing**: Wrote a flume job to convert massive log files from ProtoBuf format to text format.
- **WithMe(Early Stage Startup)** — Hangzhou, China
  Full-Stack Developer — *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 of 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.
  - **A/B Test**: Implemented a configurable A/B test toolkit to collect and analysis user behaviors.
- **Alibaba** — Hangzhou, China
  Software Development Engineer — *Jun 2014 - May 2015*
  - **Crowd-Sourcing Data Labeling System**: Built the whole system including 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 groups.
- **University of California, Santa Barbara** — Santa Barbara, CA
  Visiting Research Assistant — *May 2013 - Oct 2013*
  - **Open Information Extraction**: Identified the main reason existing extractors failed on complex sentences was that they wrongly parsed those nested sentences. Built a knowledge-graph-based natural language parser with Java with improved performance in our criminal report corpus.
  - **Knowledge Graph Visualization**: Built an interactive knowledge graph explorer and a graph query composer with JavaScript. Published a demo paper in SIGMOD 2014.

Projects

- **Mini Database**: A relational database supports basic SQL grammars including *create table*, *create index*, *insert*, *delete*, and *select*. B+ tree was implemented as the indexing data structure. Built with C.
- **Remote Desktop**: Users are allowed to monitor their PC(a server software is required) in the website. Built with JavaScript and Delphi.
- **Personal News Radio**: An iOS app which recommends news to users based on implicit feedback. A reinforcement learning recommendation system was implemented.
- **Book Price Comparison Portal**: Price comparison website and search engine for Chinese books. Achieved 18,000 DAU / 1,000,000 pages indexed by Baidu. Stochastic DFS algorithm was utilized to recommend purchase strategies. Built with C# and JavaScript.

Programming Skills

- **Languages:** C++, C#, Delphi, Python, SQL, JavaScript, Java, Objective-C
  Technologies: Unix/Linux, MySQL, MongoDB, Redis, TensorFlow, Yii, Apache, NGINX