

EDUCATION

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- **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, Computer Security

EXPERIENCE

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- **Google** Mountain View, California  
*Software Engineering Intern* *Jun 2017 - Sep 2017*
  - **Data Migration Design:** Designed the process to migrate a table from Google's internal KVS - Kansas to another internal DBMS - Spanner. The table serves several applications with different data consistency requirements.
  - **Independent Service Development:** Developed and launched an independent service in Java 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:** Wrote a flume job to convert massive log files from protobuf format to human-readable 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 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* *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 groups.
- **University of California, Santa Barbara** Santa Barbara, CA  
*Visiting Scholar* *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.

PUBLICATIONS

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1. Shengqi Yang, **Yanan Xie**, Yinghui Wu, Tianyu Wu, Huan Sun, Jian Wu and Xifeng Yan. "SLQ: A User-friendly Graph Querying System." *ACM SIGMOD Conference on Management of Data (SIGMOD 2014 Demo)*, Snowbird, Utah, USA. June 22 - 27, 2014.
2. **Yanan Xie**, Liang Chen, Kunyang Jia, Lichuan Ji, Jian Wu. "iNewsBox: Modeling and Exploiting Implicit Feedback for Building Personalized News Radio." *ACM Conference on Information and Knowledge Management (CIKM 2013 Demo)*, Burlingame, CA, USA. Oct 27 - Nov 1, 2013.
3. Jian Wu, Liang Chen, **Yanan Xie**, Lichuan Ji, Zhaohui Wu. "Modeling and Exploring Historical Records to Facilitate Service Composition." *International Journal of Web and Grid Services (IJWGS)*(accepted in April 2013).
4. Hanze Xu, **Yanan Xie**, Dinglong Duan, Liang Chen, Jian Wu. "FTCRank: Ranking Components for Building Highly Reliable Cloud Applications." *17th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2013 Workshop)*, Gold Coast, Australia. April 14 - 17, 2013.
5. Jian Wu, Liang Chen, **Yanan Xie**, Zibin Zheng. "Titan: A System for Effective Web Service Discovery." *21th International World Wide Web Conference (WWW 2012 Demo)*, Lyon, France. April 16-20, 2012.