Ran XIA

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WORK EXPERIENCE

Software Engineer II   **Microsoft**   **11/2018–present**
- Teams for Education, Teams
    - Improved teacher's class setup experience by full stack designing, developing, testing and maintaining multiple demanding features, including empty state suggestions, class teams' early access and re-implementing clone team to make the feature stable and reliable.
    - Designed, implemented and analyzed multiple A/B testing experimentation to help understand customer needs and to improve the education user retention.

Software Engineer   **Tableau Software**   **11/2015–11/2018**
- Tableau Catalog, Data Management
    - Designed and Developed a document content parse service to serve upper layer services.
    - Designed and set up a staging environment for the team to do end-to-end test and QA test. The staging environment continuously integrates microservices to monolith and builds (using TeamCity) integrated installers every night. These installers are also used for monthly release, which reduces the release preparation time from 2 weeks to 3 days.
    - Helped team set up an easy-use, standalone mock environment for testing, using GraphQL API and microservices. The testing environment gives the whole 20 people team a quick and easy way to deploy and test new features before deploying to the monolith product.
    - Helped team on front-end using React/Redux in typescript.
- Filters, Visualization
    - Full stack designed, developed, maintained and tested multiple high demand filtering features on both desktop and web, including cross datasource filtering, date filters preset and cascading filters.
    - Improved automation and unit test coverages in a continuous delivery environment.
    - Drove a developer practice program inside the team, targeting on learning skills to effectively redesign and refactor large legacy system. When the program ended, all 11 team members have gained more confidence and skills to safely refactor.

Software Developer   **Data Science, Biomedical Informatics, OSU Medical Center**   **01/2014–08/2015**
- Visual Analysis Platform for Large Network Data
    - Full stack designed and implemented the platform which allows users traverse a large graph in an iterative manner.
    - Invented and implemented multiple algorithms to reduce the time complexity of graph clustering and drawing (a clustering tree generating algorithm, and a community-detection based graph generation algorithm, which detects communities of a large graph with 3 million nodes and 117 million edges in only 25mins)

Undergraduate Assistant   **Management and Information System R&D Center, BUAA**   **09/2011-06/2013**
- Social Network Information Diffusion Prediction System
    - Implemented an efficient data crawler for data gathering from social network (about 500 user items per hour).
    - Designed and implemented the prediction model used by the system. Applied the model on different network data for experiment, which showed that the precision was almost 30%.

EDUCATION

The Ohio State University (OSU), Department of Computer Science and Engineering, Columbus, OH, USA
   M.S. in Computer Science and Engineering, May 2015
Beihang University (BUAA), School of Economics and Management, Beijing, China
   B.B.A. in Information Management & Information Systems with Minor in Applied Mathematics, July, 2013

PROGRAMMING LANGUAGE AND TECHNOLOGY

JavaScript, TypeScript, C++, React.js (Redux), node.js, Java, GraphQL API, Qt Framework, gRPC, d3.js, SQL, Bootstrap, C#, .Net Framework
Perforce, Git, GEPHI, Tableau, TeamCity, Azure
Microservice Architecture, Refactoring, OOD&P, TDD, Agile