Eric Zhang

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https://github.com/DreamOfTheRedChamber

WORK EXPERIENCE

Software Engineer II

Microsoft, Redmond, WA   *May 2017 - Present*

- Owned tier zero Teams authorization service and drove the service availability to five nine standard.
- Designed cross-team shared libraries such as traffic replay and stale caching for improving testing and resiliency.
- Led the effort for POP token which could be directly passed along to downstream services and saved the org $2.3M/y.

Software Engineer

OpenText, San Mateo, CA   *October 2015 - April 2017*

- Implemented column-based report data source compression for top level Eclipse open source project BIRT, resulting in a 16% less data than original row-based compression on average (Java).
- Enhanced gantt charts exporting features for HTML5 with Javascript and Highcharts.
- Developed integration testing with Maven and Selenium for report war files on embedded Tomcat server.

Software Development Intern

Financial Industry Regulatory Authority (FINRA), Rockville, MD   *May 2014 - August 2014*

- Developed a Role Permissions Compliance System on AWS, which was later featured in AWS re:Invent 2015.
- Created Python scripts to fetch permission settings from AWS IAM and compared with benchmarks in S3.
- Integrated with Splunk and AWS CloudTrail to automate the process of daily/monthly security checking, leading to a 13.5% reduction in AWS billing line items in 1 month.

Research Assistant (Multimedia processing)

National Engineering Lab of Speech and Language Information Processing, Hefei, China   *March 2012 - July 2013*

EDUCATION

University of Maryland, College Park   *Feb 2019 - Present*

Master of Professional Studies in Technology Entreprenuership

Johns Hopkins University   *September 2013 - May 2015*

Master of Science in Information Security

University of Science and Technology of China   *August 2009 - July 2013*

Bachelor of Engineering in Computer Science

PUBLICATIONS

Automatic Tag Saliency Ranking for Stereo Images

- Yang Cao, Kai Kang, **Shijie Zhang**, et al.   *Neurocomputing, 2015*

Underwater Stereo Image Enhancing Using a Physical Model

- **Shijie Zhang**, Jing Zhang, et al.   *ICIP, 2014*

A Novel Segmentation-based Video Denoising Method with Noise Level Estimation

- **Shijie Zhang**, Yang Cao, et al.   *MMM, 2013 (Oral) & Invited to Information Sciences, 2014*