Eric Zhang

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https://github.com/DreamOfTheRedChamber

WORK EXPERIENCE

Software Engineer II - Authorization Domain Expert

Microsoft, Redmond, WA   *July 2019 - Present*

- Led Microsoft wide initiative to support proof of possession authentication token, unblocking selling to Financial SaaS.
- Drove the adoption of next-generation Microsoft Authorization protocol for $5M/y team-wise COGS reduction.
- Led the auth framework migration from ADAL.NET to MSAL.NET, preventing SPOF in Azure token issuing service.

Software Engineer II - Critical Service Owner

Microsoft, Redmond, WA   *May 2017 - June 2019*

- Decomposed monolithic app into microservices and owned mission critical authorization service.
- Owned tier zero Teams sign-in service and drove the service availability to five nine standard.
- Led the Microsoft Teams trial license and cross-tenant licensing features which result in additional 1M yearly signup.

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.

OPEN SOURCE & VOLUNTEERING

System Design Gitbook   https://eric-zhang-seattle.gitbook.io/mess-around/
1.8K stars, 600+ forks

Toastmaster Club   https://eric-zhang-seattle.gitbook.io/think-bigger/presentations
Passionate about phycology, communication and technology

Polly Fallback To Cache Policy   https://github.com/Polly-Contrib/Polly.Contrib.CachePolicy
Resilience policy in C#'s resilience4j library

EDUCATION

University of Maryland, College Park   *Feb 2019 - May 2021*
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