

# Eric Zhang

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<https://github.com/DreamOfTheRedChamber>

## WORK EXPERIENCE

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### 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

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### System Design Gitbook

1.8K stars, 600+ forks

<https://eric-zhang-seattle.gitbook.io/mess-around/>

### Toastmaster Club

Passionate about psychology, communication and technology

<https://eric-zhang-seattle.gitbook.io/think-bigger/presentations>

### Polly Fallback To Cache Policy

Resilience policy in C#'s resilience4j library

<https://github.com/Polly-Contrib/Polly.Contrib.CachePolicy>

## EDUCATION

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### University of Maryland, College Park

Master of Professional Studies in Technology Entrepreneurship

Feb 2019 - May 2021

### Johns Hopkins University

Master of Science in Information Security

September 2013 - May 2015

### University of Science and Technology of China

Bachelor of Engineering in Computer Science

August 2009 - July 2013