

Zhiyuan Yin

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Professional SWE

09.2013-present

Experience

Google Inc., Kirkland, WA

- Technical Lead On Google Service Management
<https://cloud.google.com/service-management/overview>.
It's a one stop shop for building an API on top of all the goodies offered by Google Cloud.

SDE

07.2012-08.2013

Amazon Web Service, Seattle, WA

- Worked on AWS Relational Database Service <http://aws.amazon.com/rds/>.
- Develop and test features of the RDS system with three database engine brands (MySQL, Oracle, SQL Server) on two operating system platforms (Linux, Windows). Being the key contributor for the second wave of RDS features in Virtual Private Cloud (VPC), I designed, implemented and tested the Security Group feature for RDS in VPC.
- Built and maintained the distributed log analysis service that generates metrics to help evaluate the quality of service provided by RDS. It not only retrieves health data for all the RDS instances within each data center but also aggregates them to provide availability measurement for every single instance.
- Integrated Amazon Route53 (Cloud DNS provider) with RDS, which reduced "Multi-AZ" (RDS high availability feature) fail over time by more than 70%. This work involves building a highly available and scalable health report service that leverages Route53's health check to achieve automatic DNS failover.
- Built extensive hands on knowledge with AWS technologies, including Elastic Compute Cloud, Simple Work Flow, Simple Storage Service and Route 53
- Diagnose and fix problems in the system in real time, to ensure a seamless customer experience ("on-call").

SDET

01.2011-06.2012

Microsoft, Redmond, WA

Windows Azure Management and Runtime Team

- Worked on Windows Azure SDK Quality Assurance. Key responsibilities include building and maintaining Azure SDKs test automation framework for both Desktop Tools and Cloud Runtime Library, providing partner team with tooling to facilitate End To End testing, and performing test sign off on software releases.
- Designed and built a regression test framework which condensed all Azure SDK features into 8 highly extensible and compact packages. Reduced the number of test packages by a factor of 10 without losing coverage.

SDE Intern

05.2010-08.2010

Microsoft, Redmond, WA

Windows Azure Developer Experience Team

- Developed the emulation tool to enable testing host-guest communication on a desktop Computer, using IIS Hostable Webcore and C++ to build a mock server and a C# Wrapper to facilitate integration into existing test framework.
- Designed, implemented and tested the Key Management Service (KMS) proxy running in each Windows Azure Data Center worldwide. Using Windows Azure SDK to implement the Proxy Server as a service, which can be configured using DNS SRV record to point to different KMS Server. The proxy also throttles activation requests from each IP address to prevent abusive usage of Azure's KMS Activation Service. Wrote a full-featured C# DNS Packet library from scratch.

Technical Skills

Java, Ruby/Rails, C#, C/C++, SQL, Spring, JDBC, WCF, ASP.NET, IIS, MySQL, Oracle, git, svn, Eclipse, Amazon EC2, Amazon SWF, Amazon S3, Amazon Route 53

Education

M.S., Electrical Engineering

Graduation Date: 12.2010