

Zhitao Qiu

Azure Data Platform Software Engineer at Microsoft

Summary

1. Full stack software engineer with 10 years experiences in large-scale software development from scalable RESTful web/cloud services to critical carrier-grade runtime system software.
2. Expertise in distributed system and Cloud service with Microsoft Azure and Amazon Web Service
3. Solid Object Oriented software development experiences in both control plane and data plane of Motorola and Nortel Network products

Key Skills

1. Deep exposure in algorithms and data structures
2. Programming:
 - a. C++/Java, PowerShell, Python, JavaScript
3. Cloud and Web Service development
 - a. Cloud Computing, Hadoop, RESTful API, HDFS, Chord, Block Store
 - b. Azure Automation, IaaS, Elastic capability and High reliability
 - c. Azure Web App, Application Insights, Machine Learning, Big data Analysis, Storm
4. Distributed/Large Scale Software development for network infrastructure
 - a. Message Driven Model, Feature Process Framework in Control Plane
 - b. Parallel computing and Multithread programming
 - c. Data Packet Critical Path Optimization, Traffic and congestion control
 - d. Excellent Trouble Shooting & Performance Optimization

Selected Accomplishments

1. 2017 Microsoft Azure Data Platform Storm based Notification Management MicroService design
 2. 2016 Microsoft Azure Data Platform Dynamic Asset Caching and Allocation service
 3. 2015 Amazon new web platform for identity services based on Scala, FreeMarker, JavaScript.
 4. 2014 Michigan Tech Distributed Access Control Platform based on Chord, Paxos and DHash
 5. 2008-2013 Motorola Flow-type differentiated scheduling services and throughput control
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Experience

Software Engineer at Microsoft

April 2016 - Present

Azure Data Platform Software Engineer

Work Description:

- 1) Designed Azure Automation virtual machine caching service and dynamic asset allocation.
- 2) Designed Azure notification management as micro-service for data platform enterprise system, which provided stream data processing, user subscription and message publish.

Worked on full stack for the notification micro-service, including ETL - Extract, Transform and Load, Azure Web API/Application, UI development.

Development environment: Azure Automation/SQL/Service Bus/Table Storage, JavaScript, Vue.js

Software Development Engineer at Amazon

May 2015 - April 2016 (1 year)

Develop new web platform based on Scala and Free marker for eCommerce Platform.

Graduate Research Assistant and Software Engineer at Michigan Technological University

August 2013 - May 2015 (1 year 10 months)

Worked on Distributed System research. Interested areas are Access Control and Data Mining. Meanwhile, got my second MS degree in Computer science after 10 years of working in the industry.

Senior Software Engineer at Nokia Network and Solutions (former Motorola)

September 2008 - 2013 (5 years 4 months)

(primary Motorola Solutions Network)

C/C++ Software for Wireless Control Plane and Data Plane feature design including TCP/IP and network Processing

Key Accomplishments

- # To support live site trouble shooting and system performance measurement, design and delivered session data logging feature
- # Developed variable traffic management, congestion control feature and message routing algorithms to improve voice Over IP performance and stability. Greatly reduced the parallel processing time of VOIP data on the critical path and package lost rate, which is an important milestone of our product achieving customer satisfaction.
- # Improved Unit Test coverage by 10% through introducing Python based Unit Test Tool

Education

Michigan Technological University

Master of Science (MS), Computer Science, 2013 - 2014

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[Contact Zhitao on LinkedIn](#)