

Jieru Hu

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EDUCATION

University of Wisconsin Madison

Aug 2013 – May 2018

Bachelor of Science in Engineering - Mechanical Engineering, Computer Science, Mathematics

GPA: 3.85/4.00

EXPERIENCE

- **Software Development Engineer II** Vancouver, BC
Microsoft Corporation - Azure Machine Learning Inferencing February 2022 - Now
 - Building next generation of Machine Learning Inferencing Platform in Azure
- **Software Development Engineer II** Redmond, WA - Vancouver, BC
Microsoft Corporation - Azure Core Compute April 2019 - February 2022
 - Developed micro-services in C# and .NET framework including PoolManager(Coyote P#, asynchronous actors programming model), DeploymentManager, FrontEnd, Key Service as core backend of Azure Batch which handles resource allocation with deployment management, and orchestrates virtual machines for compute jobs and tasks
 - Designed, implemented and delivered features in Batch Service including AzureDiskEncryption, EncryptionAtHost, Customer Managed keys for Meta-data encryption, Managed Identity Support, Spot VM Support in Batch, Availability Zones for Pools, Multiple partition support for Deployment Manager, Pool VM Extensions Support, Cluster Service Integration with Batch, etc
 - Enhanced Batch resource provisioning performance via integration with Azure compute and network features such as Over-Provisioning, Pre-Provisioning, Ephemeral OS Disk, Multiple Placement Group, InfiniBand, Accelerated-Networking, Force Delete, etc
 - Developed PowerBI dashboards with Service telemetry and flow automation to monitor Azure Batch Service SLA and SLO; Wrote query automation to do automatic root cause analysis for pool and node failures; Main owner of Batch TDPR(Tenant Deployment Performance and Reliability) investigations across the various Azure stack
 - Contributed to Batch Diagnostic Portal using React, TypeScript, Kusto Query and ASP.NET Web API which provides quicker and easier diagnostic for Batch Service Oncalls and customer support engineers
 - Mentored new-hires and interns to onboard Batch Services, Oncall rotations as well as contributed to technical brownbags, project design and pull request reviews
- **Software Development Engineer** Seattle, WA
Amazon Corporate LLC June 2018 - April 2019
 - Developed Blackjack card widgets on Amazon India Gateway and Browse page through a server-side data phase integrated with various backend APIs and a client-side UI/UX rendering phase under Perl Mason Framework
 - Contributed to the HOTW(Hands-Off-the-Wheel) project which automates content scheduling on thousands of the browse pages, thus minimizing the merchandising effort
 - Maintained the deployment pipeline, handled weekly operational tickets, and contributed to project design, wiki documentations and internal team code reviews
- **Software Engineering Internship** Seattle, WA
Amazon Corporate LLC June 2017 - August 2017
 - Designed and implemented Screenshot Social Sharing feature into Kindle iOS App production in Obj-C
 - Built Java service APIs to store and retrieve Encoded Voice data into and from AWS S3 bucket
 - Developed the voice annotation feature in Kindle iOS notebook and implemented end-to-end model to synchronize client voice data across multiple devices
- **Student Software Engineer** Madison, WI
Morgridge Institute for Research - Software Assurance Marketplace(SWAMP) January 2017 – May 2018
 - Modified Perl and SQL scripts to display complete code analysis details on the Result Viewer Page
 - Developed a low memory-consuming backend service in C to parse code assessment result from XML into JSON
 - Implemented a trigger in PHP server to launch automatic assessment of new code by GitHub Webhook event
 - Organized and stored SWAMP assessment result data into MongoDB

SKILLS

- **Languages:** Python, Java, C#, P#, C, C++, Obj-C, MATLAB, Perl, JavaScript, TypeScript, SQL, PHP, Bash, R, HTML, CSS, XML, JSON, Latex
- **Technologies:** CUDA, GRPC, OpenMP, MPI, ROS, Xcode, iOS-SDK, OpenCV, Mason, JQuery, MySQL, MongoDB, MariaDB, Git, Tensor Flow, scikit-learn, Pandas, Guice, ReactJs, Laval