**Bryan Yue | Software Developer**

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Work History

**Microsoft | AzureStack Compute| Redmond, WA | 10/2019 – Present**

Optimized on-premises cloud infrastructure in resource-constrained environments.

* Designed IMDS feature, unblocking container orchestration scenarios and Cloud-Init.
* Designed bulk VM metadata API to reduce traffic 50x and VM provisioning time 5s.
* Rearchitected system to onboard new VM agent protocol, reducing traffic 8x.
* Designed operator-facing feature flags API, reducing risk and increasing release velocity.
* Automated manual maintenance of deployment artifacts via Azure DevOps Pipelines.

**Bloomberg | Ticker Plant | New York City, NY | 9/2018 – 9/2019**

Supported SamayDB, a time-series database queried billions of times per day for stock prices.

* Migrated petabytes of market data to SamayDB within 6-hour maintenance window, leveraging caching and low-latency C++ techniques.
* Designed prototype API for ranking stock “insights”, leveraging data science team model.

**Kernel Labs | Machine Learning Internship | Seattle, WA| 3/2018 – 6/2018**

Researched and implemented speech separation from multiple sources into individual components.

* Achieved 82% test set accuracy with BLSTM model with L2 regularization and dropout.
* Created train, validation, and test sets with audio book web scraper.
* Visualized data with pandas and MFCC plots

Tech Stack

* Cloud: Azure and Azure DevOps Pipelines
* Languages: C#, C++, Java, Python
* Frameworks: .NET Core, .NET Standard
* Databases: SQL, NoSQL, Reliable Collections
* Microservices: Service Fabric
* Networking: WireShark, Fiddler
* Testing: Moq, Fluent Assertions, Unit Testing
* Machine Learning: PyTorch, Pandas, NumPy, Jupyter
* Version Control: Git
* Scripting: Bash, Powershell

Skills

* API and System Design
* Mentoring junior developers and delegating tasks
* Health Monitoring and Auto Remediation
* Logging, Telemetry, and Metrics
* Asynchronous and concurrent programming
* Collaborating and negotiating with external teams
* Packaging, deployment, and CI processes
* Authoring design documents and team guide

Education

* University of Washington | Computer Science | GPA: 3.89 | Phi Beta Kappa Honor Society | 2014 – 2018