Bryan Yue | Software Developer

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Work

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

Separated speech 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