

# Bryan Yue | Software Developer | 7+ YOE

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## Work History

### Amazon | AWS Shield | Seattle, WA | 11/2021 – Present

Automated state of the art L34 DDoS detection and mitigation techniques for AWS network infrastructure.

- Created scope for peers by defining the annual team roadmap with data-driven project prioritization.
- Led the team and designed near real-time mitigation automation, improving efficacy from 10% to 80%.
- Unblocked contentious design, release, and operational decisions by disambiguating options.
- Designed a cross-team centralized platform for management and deployment of IP known offender lists.

### Microsoft | Azure Stack Compute | Redmond, WA | 10/2019 – 11/2021

Optimized on-premises cloud infrastructure in resource-constrained environments for JEDI program.

- 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.
- Automated E2E testing of Linux and Windows VM agents via Azure DevOps Pipelines.

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

Supported and optimized SamayDB, a high-throughput time-series database serving billions of queries per day for real-time equity pricing and market data feeds.

- Led migration of petabytes of historical market data into SamayDB within a strict 6-hour maintenance window, using aggressive caching strategies and low-latency C++ pipelines to meet throughput and availability SLA
- Designed and prototyped a ranking API for stock insights, integrating data science models to surface high-signal analytics for downstream consumers and internal tooling.

## Tech Stack

- Cloud: AWS, Azure
- Languages: Java, Python, Clojure, TypeScript, C#, C++
- Frameworks: Spring, React, .NET Core
- Compute: Lambda, ECS, EC2
- Storage: SQL, DynamoDB, Redis, S3
- Streaming/Messaging: SNS, SQS, Kinesis
- Machine Learning: PyTorch, Pandas, NumPy
- Scripting: Bash, Powershell

## Skills

- Roadmap Planning
- External Team and Stakeholder Alignment
- System Design
- Threat Modeling
- Mentoring juniors and delegating tasks
- Disambiguating customer requirements
- Observability and Operational Excellence
- Asynchronous and concurrent programming
- Unit/Integration/Stress Tests, Canary