

# Garrett Beatty

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## EXPERIENCE

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### Amazon Web Services

Software Engineer 2

August 2022 – Present

New York, New York

#### AWS SDK for .NET

- Designed and implemented S3 multipart download functionality in the AWS SDK for .NET, increasing throughput by 6000% (0.8 Gbps to 50 Gbps) for large-object downloads.
- Delivered the topmost customer requested feature by adding presigned POST URL support to the AWS SDK for .NET, enabling secure, form-based uploads with parity across SDKs.
- Standardized code review and merge workflows across team repositories by enforcing branch protection, two-reviewer approvals, GitHub Copilot AI reviews, security scans, and CI checks.
- Automated change management for DevEx GitHub pipelines, replacing a multi-day manual process with a self-updating system that reduced change rollout time from 3 days to minutes.

#### Data Center Automation

- Led the migration of a legacy web platform used by AWS data center technicians to a scalable Java/React system, improving reliability and developer velocity.
- Coordinated backend and frontend development, mentored 4 junior engineers, resolved cross-team blockers, and delivered core workflow features.
- Implemented distributed tracing and synthetic monitoring across the application stack using AWS X-Ray and OpenTelemetry, significantly enhancing observability, reliability, and incident resolution.
- Automated regression testing with Cypress, reducing test runtime from 2 hours to 10 minutes, and enabled continuous deployment across multiple pipelines.

### Microsoft

Software Engineer

June 2021 – August 2022

Seattle, WA

- Implemented Managed Identity for Azure SQL Database “External REST Endpoints Integration,” enabling customers to conveniently secure and manage their workflows.
- Developed “Bring Your Own Runtime” on SQL Server 2022 Machine Learning Services for Linux, enabling users to configure custom R and Python runtimes.

### Comcast

Software Engineer 2

June 2019 – June 2021

Philadelphia, PA

- Developed microservices that support 30,000 Comcast technicians, using Java, Spring Boot, MongoDB and MySQL.
- Improved the team’s continuous integration process by reducing deployment time from 6 hours to 30 minutes.
- Built a prototype CI pipeline for iOS testing and release using Concourse, Appium, and Selenium Grid.

## TECHNICAL SKILLS

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Java, C#, Python, TypeScript, C++, SQL, React, Spring Boot, AWS, Azure, RDS, DynamoDB, MongoDB, Docker, Linux, Git, GitHub, Jenkins, GoCD, Artifactory, Cloud Foundry, Continuous Integration, Continuous Deployment, Vault, OpenTelemetry, Grafana, Elasticsearch, Logstash, Kibana

## EDUCATION

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### The College of New Jersey

Bachelor of Science, Computer Science

August 2015 – May

2019Ewing, NJ