Joseph Cosentino

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EXPERIENCE

Amazon Web Services

Seattle, Washington

Sept 2024 - Present

Software Engineer II - Amazon MQ

- Designed a public, serverless API for safely deleting broker configurations
- Developed and implemented a scalable process for backfilling millions of DynamoDB items across 20+ AWS regions while maintaining data integrity
- Led over five technical design reviews with cross-functional teams, incorporating feedback from UX, Security, Product, and API bar raisers to ensure compliance with AWS standards
- Mentored two engineers across different AWS organizations, providing career guidance and constructive feedback

Amazon Web Services

Seattle, Washington

Software Engineer $I \rightarrow II$ - Amazon IoT Greengrass

Feb 2022 - Sept 2024

- Implemented MQTT5 protocol support across open-source AWS IoT Greengrass components, including MQTT Bridge, Broker, and Spooler
- Enhanced AWS IoT Greengrass authorization policies to support IoT Thing name variables, enabling customers to consolidate thousands of statements into one
- Integrated a custom C++ storage library within AWS IoT Fleetwise's edge agent, projected for use in millions of connected vehicles

Comcast

Philadelphia, Pennsylvania

Software Engineer III - xFi Speed Platform

Sept 2020 - Feb 2022

- Engineered APIs for speed testing millions of customer gateways and connected devices
- Implemented internationalization support for speed test APIs, enabling localized responses across mobile and web applications
- Strengthened deployment reliability by implementing robust error handling and retry mechanisms in deployment scripts, improving reliability by automating rollbacks

Comcast

Philadelphia, Pennsylvania

Software Engineer II \rightarrow III - DVR Scheduler Platform

May 2017 - Sept 2020

- $\bullet \ \ {\rm Redesigned\ the\ DVR\ Scheduler's\ metadata\ indexing\ system\ to\ a\ serverless\ architecture,\ servicing\ 10M+\ customers$
- Architected a "Who's Watching" API to track user channel viewing at an account level, using AWS Lambda to ingest 1B daily events into ScyllaDB

\mathbf{QVC}

West Chester, Pennsylvania

Jan 2016 - May 2017

Software Engineer

• Developed Java-based warehouse management APIs

SKILLS

Languages: Java, Python, Golang, TypeScript, Erlang, C++

AWS: DynamoDB, Lambda, ECS, EC2, SNS, SQS, CloudWatch, S3, API Gateway

Tools: CloudFormation, CDK, Terraform, Packer, Maven, Concourse CI

Protocols: HTTP, gRPC, MQTT

EDUCATION

West Chester University of Pennsylvania, Honors College

B.S. in Computer Science, Class of 2015, Summa Cum Laude