Joseph Cosentino

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EXPERIENCE

Amazon Web Services
Seattle, Washington

Software Engineer II - Amazon MQ
Sept 2024 – Present

- 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 → 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 → III - DVR Scheduler Platform
May 2017 – Sept 2020

- 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

QVC
West Chester, Pennsylvania

Software Engineer
Jan 2016 – May 2017

- 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