Stephen X. Chen

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Experience

Amazon Web Services

Software Development Engineer – SDKs & Tools   *Feb. 2021 - Feb. 2023*

- Maintained the SDK release platform, internal tooling for streamlining the updates from all 300+ AWS services into the daily releases of 13 different language SDKs.
- Proposed and initiated a transition plan for the frontend UX from an outdated jQuery/HTML codebase to using React, Webpack, and Jest with greater testing and maintainability.
- Improved backend architecture by breaking down the existing monolith into several Lambda based microservices.
- Designed and engineered a microservice to collect and track customer feedback to guide the team's focus.
- Implemented various model checks and validators, reducing the risk of unintended or breaking SDK updates.
- Set up and maintained CI/CD pipelines to automatically run code ingestion, unit tests, integration tests, and deployments to several host environments.

Software Development Intern – AWS Chalice   *June 2020 - Aug. 2020*

- Contributed features and bugfixes to AWS Chalice, an open-source Python framework for quickly creating serverless webapps automatically deployed to the AWS ecosystem.
- Architected and implemented a more accurate local testing mode that mirrored actual AWS service behavior using Docker containers, improving customer productivity without compromising end-to-end behavior accuracy.

Software Development Intern – AWS Service Catalog   *June 2019 - Aug. 2019*

- Designed and implemented a highly-scalable and parallelized scheduling service for one-off or recurrent execution of AWS Service Catalog APIs in the future.
- Feature allows users to schedule provisioning, deactivating, and other actions to their IaC templates in order to reduce AWS costs.

FragranceX (perfume.com)

Software Development Intern   *June 2018 - Aug. 2018*

- Created an auto-dialer application in ASP.NET-MVC using the Twilio API to improve customer service productivity.
- Automated a weekly report of sales data by transforming and exporting relevant SQL data into a spreadsheet.
- Streamlined warehouse workflows by creating automation scripts and improving the management software.

Skills

Proficient Languages	Java, TypeScript, JavaScript, Python, C#, HTML/CSS
Frameworks/Tools	React, NodeJS, Flask, Docker, Unity, GitHub Actions, Git
AWS Services	Lambda, DynamoDB, S3, SNS, SQS, API Gateway, CloudWatch, EventBridge, IAM, EC2

Education

Stony Brook University   *Aug. 2016 - May 2020*

B.S. in Computer Science and Applied Math & Statistics   *GPA: 3.63*

- Specialization in Artificial Intelligence and Data Science