WingSheng Sze

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Technical Skills:

Languages: Python, Java, TypeScript, HTML/CSS/JavaScript, Go, C, C++
Frameworks: Angular, React, Spring Boot, Flask, Bootstrap
Tools: AWS, Git, Cucumber, Cypress, MySQL, Neo4j, CypherQL, New Relic, Splunk

Work Experience:

Senior Associate Software Engineer   **January 2024 - present**

Capital One, Boston, MA

- Led the serverless migration of our content delivery microservice from AWS ECS/EC2 to AWS Fargate, resulting in reduced infrastructure management
- Collaborated with other teams to ensure seamless integration and deployment, sharing insights and learnings to identify and mitigate roadblocks for other teams, enhancing overall project efficiency
- Led the development of new functionality and implemented enhancements to legacy code as part of the migration to a new version of our microservices' downstream API, proactively resolving integration challenges to ensure smooth functionality and ensure code maintainability
- Managed weekly release and troubleshot pipeline issues for a high-traffic microservice, handling up to 3 million daily requests for credit card customer's accounts page content, ensure high availability and reliability
- Assisted another team in speeding up their migration from a monolithic orchestration layer to direction microservice integration by utilizing Angular to migrate web features
- Led knowledge transfer sessions and created documentation to teach other engineers the basics of contributing to the web application with Angular and how to develop and implement unit tests and E2E tests
- Conducted in-depth research on Java 17 and Spring Boot 3 features, refactored code to eliminate redundancy, and documenting best practices on Confluence

Associate Software Engineer   **August 2022 - December 2023**

Capital One, Boston, MA; Wilmington, DE

- Led the migration of the self-service menu microservice for retail bank customers from an AWS ECS/EC2 architecture to an AWS Lambda service, building out the infrastructure to include autoscaling, alerting, and failover functionality for enhanced reliability and performance and optimizing cost
- Utilized Angular to onboard and integrate our self-service menu microservice into the account services modal on web for retail banking customers, ensuring quality through comprehensive testing with Jest, Cypress, and Cucumber
- Implement UI improvements in Angular for features on the bank account details page, enhancing the user experience for approximately 1 million daily users
- Implemented UI experience improvements to address compliance and user experience issues, ensuring the interface accurately reflected restrictions for teen and kids accounts
- Improved customer accessibility and reduced approximately 600,000 support center calls per year by adding Spanish support to the accounts page for retail banking customers

Travelers, Hartford, CT

Software Engineer Intern   **June 2021 - August 2021**

- Reduced cost by migrating from ExtJS to ReactJS to develop a standalone application for a contacts collection feature used by Business Insurance site to make it available for other systems
- Integrate the API for customer contacts information into the new application

Education:

University of Connecticut Storrs, Connecticut

Bachelors of Science in Computer Science and Engineering, Concentration in Computational Data Analytics

Minor: Mathematics

GPA: 3.66/4.0   Graduation Date: May, 2022

Certifications:

AWS Certified Solutions Architect - Associate