

Darren Zhang

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EDUCATION

Carnegie Mellon University , B.S in Mathematical Sciences, Minor in Computer Science	May 2022
Georgia Institute of Technology , M.S in Computer Science, Specialization in Machine Learning	May 2027

SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, Python, Go, Java, C, Swift, Ruby, SQL
Frameworks: Node, Angular, React, Next.js, Tailwind CSS, Junit, Cypress, Spring Boot, Cucumber, Maven
Software: AWS, Azure, ADO, Splunk, Prometheus, Grafana, New Relic, JFrog, Snowflake, Jenkins
Certifications: AWS Certified Cloud Practitioner, AWS Certified Solutions Architect - Associate

WORK EXPERIENCE

Geico - Senior Software Engineer June 2025 – Present

- Streamlining artifact management by consolidating Azure Artifacts, Azure Container Registry, and Artifactory into a unified Artifactory solution, reducing infrastructure costs by 30% and simplifying maintenance
- Enhancing observability of artifact management systems by integrating Prometheus and Grafana for improved monitoring and alerting

Capital One - Software Engineer August 2023 – April 2025

- Rebuilt the account opening resume flow to allow continuation of previously stopped applications, improving conversion rates by 10% and reducing average handling time from 10 to 5 minutes
- Validated and released new account opening UI on iPads across all Capital One branches and cafes to provide better in-person customer experience, increasing number of accounts opened daily by 5%
- Migrated component and integration end-to-end tests from Sauce Labs to BrowserStack, achieving a 33% increase in speed and significant cost savings
- Integrated Evinced Cypress SDK into Jenkins pipeline to automatically detect accessibility issues, ensuring the UI adheres to ADA accessibility guidelines and proper ARIA implementation
- Built an automated script to manage the deployment and removal of the maintenance page, decreasing manual engineer time from 20 minutes to less than 1 minute
- Developed the organization's first backend for frontend (BFF) endpoint, improving code maintainability and reducing frontend complexity by decoupling business logic from UI components

Capital One - Associate Software Engineer August 2022 – August 2023

- Delivered self-service zero balance and internal transfer account closure functionalities to minimize call center volume, enhancing customer mobile app experience
- Collaborated with product and design teams to create new user-friendly screens, updating customer messaging for clarity and ensuring compliance with the latest design standards
- Successfully refactored APIs for all iOS account management features as part of the app modernization initiative, eliminating specific dependencies and legacy code
- Integrated UI tests into a Jenkins CI/CD pipeline with nightly runs and Slack alerts, enhancing continuous monitoring and software reliability

Amazon - Software Development Engineer Intern June 2021 – August 2021

- Designed a feature enabling seamless Kubernetes image overrides within Apache Flink and Zeppelin, slashing manual engineer time from hours to 20 minutes
- Wrote comprehensive unit and integration tests, meeting code coverage requirements and ensuring reliability and stability for production deployment