

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 Incoming Fall 2025

SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, Python, Java, C, Swift, Ruby, SQL

Frameworks: Node, Angular, React, Next.js, Tailwind CSS, Junit, Cypress, Spring Boot, Cucumber, Maven, Mockito

Software: AWS, Git, Splunk, Snowflake, New Relic, Jenkins

Certifications: AWS Certified Cloud Practitioner, AWS Certified Solutions Architect - Associate

WORK EXPERIENCE

Capital One New York, NY
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
- Developed 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
- Spearheaded the creation of the organization's first backend for frontend (BFF) endpoint, establishing a technical pattern that improved code maintainability and decreased frontend complexity by decoupling business logic from UI components

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

PROJECTS

Costco Spreadsheet

- Crafted an application that calculates gold investment profits by comparing Costco with marketplace prices, featuring real-time integration with third-party pricing APIs

Corporate Speak

- Built a React app that converts text to corporate jargon using an LLM API for natural language processing