

# Darren Zhang

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## SKILLS

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**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

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### 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 Evince Cypress SDK into Jenkins pipeline to automatically detect accessibility issues, ensuring the UI adheres to ADA accessibility guidelines and proper ARIA implementation
- Completed bimonthly WAF rehydrations to maintain the security and reliability of online account creation, preventing cyber attacks and safeguarding against fraud
- 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
- Onboarded UI tests into an automated Jenkins pipeline for nightly test executions and Slack notifications, to provide ongoing monitoring and issue detection, improving software quality and reliability

## PROJECTS

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### 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

- Created a React web application that translates regular text into corporate jargon, utilizing the Claude 3.7 API for natural language processing

## EDUCATION

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**Carnegie Mellon University**, B.S in Mathematical Sciences, Minor in Computer Science