

Safa Demirkan

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SUMMARY

Software Engineer with 9+ years of experience in test automation, CI/CD, and software quality, now transitioning into full-stack development. Recently built and launched production applications using Go, React, React Native, and PostgreSQL — including a live iOS app on the App Store. Strong foundation in system architecture, debugging, and automated testing, with a proven track record of improving release quality and reducing manual effort through tooling and frameworks.

TECHNICAL SKILLS

Languages:	Go, TypeScript, JavaScript, Java, Kotlin, SQL
Frontend:	React, Next.js, TanStack Router, TanStack Query, Tailwind CSS, Vite
Backend & Database:	Go (Chi, pgx), REST APIs, PostgreSQL, Node.js, Docker, Nginx
Testing / QA:	Playwright, Selenium WebDriver, Appium, Cucumber, JUnit, Espresso, TestNG, Jest
CI/CD & DevOps:	GitHub Actions, Jenkins, GitLab CI/CD, AWS, Docker, Kubernetes, Linux, Git
Mobile:	React Native, Expo, EAS Build, App Store Submission, Android, iOS, Xcode, Android Studio

TECHNICAL PROJECTS

LuxSUV — Premium Ground Transportation Platform | rider.luxsuv.us

Full-stack luxury ride-sharing platform — Go, React, React Native, Expo, PostgreSQL, Stripe, Google Maps, TanStack Router/Query, Playwright | Oct 2024 – Present

- Architected and deployed a Go REST API on DigitalOcean serving three client applications: rider web app, driver iOS app, and admin portal.
- Implemented multi-role JWT authentication with separate flows for web (httpOnly cookies) and mobile (SecureStore), plus role-based middleware for Rider, Driver, and Admin.
- Integrated Stripe payments, Google Distance Matrix API for dynamic route pricing, and Server-Sent Events for real-time ride tracking.
- Built and published a React Native/Expo driver app to the App Store via EAS Build, including background location tracking and TestFlight distribution.
- Developed a Playwright E2E test suite with GitHub Actions CI/CD pipeline connected to Neon PostgreSQL and MailHog.

Interactive Todo Application | interactive-todo.safadev.app

Full-stack Team Task Manager — Go, React, PostgreSQL, TypeScript, TanStack Router/Query, Playwright, Docker, Nginx | Nov 2025

- Designed and implemented a secure REST API in Go (Chi, pgx) with JWT access/refresh tokens and refresh-token rotation.
 - Implemented team management, task assignment, status transitions, and reminder logic backed by PostgreSQL with proper indexing.
 - Developed a modern React SPA using TanStack Router and TanStack Query for data-fetching, caching, and optimistic UI updates.
 - Created an end-to-end Playwright test suite for API and core flows, enabling repeatable regression checks and CI validation.
 - Containerized with Docker and deployed behind Nginx on DigitalOcean with domain routing and HTTPS termination.
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WORK EXPERIENCE

Wizards of the Coast — Software Development Engineer in Test

Jan 2019 – May 2025

- Built Java/Kotlin test automation framework, reducing manual testing effort significantly across web and mobile.
- Developed Android/iOS automation with Appium, increasing test coverage by 40% in 6 months.
- Implemented BDD framework (Cucumber, Selenium, Appium), reducing defects by 25% within one year.
- Integrated test suites into Jenkins/GitLab CI/CD pipelines; deployed scalable test environments on AWS, Docker, and Kubernetes.
- Adopted Playwright for web automation, boosting test efficiency by 40% in 6 months.

Providence Health Services — Software Development Engineer in Test

Jul 2018 – Jan 2019

- Built Android/iOS/Web automation framework (Java, JUnit, JavaScript), increasing test coverage by 50% in 4 months.
- Automated deep linking and parallel mobile tests; Agile test strategy via Bitrise CI reduced system downtime by 30%.

Sempra Energy — Software Development Engineer in Test

Nov 2017 – May 2018

- Automated tests with WebDriver and Cucumber, increasing test coverage by 40% within 3 months.

Hilton — Software Development Engineer in Test / Test Lead

Mar 2017 – Nov 2017

- Led test strategy with Jenkins CI/CD; built Selenium/Appium scripts for web/mobile, enhancing coverage by 60%.

American Express — Software Development Engineer in Test

Nov 2015 – Jan 2017

- Built and maintained Selenium WebDriver automation in Jenkins CI; developed internal tooling to reduce manual QA effort.
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EDUCATION

Northwestern University | MS, Biomedical Engineering (GPA: 3.5)

Jan 2013 – Jan 2015

Yeditepe University | BS, Biomedical Engineering (GPA: 3.6)

Sep 2007 – 2011