
SUMMARY

Innovative and passionate software engineer with more than 8 years of experience in test automation and technical leadership, plus 13 total years of exposure to mobile development. Driver of quality and velocity improvement through extensive application of LLM tools (Claude Code, Skills, MCP servers) to automate tests, maintain infrastructure, generate reports, and audit test coverage. Expertise in iOS and Android testing, CI/CD systems, and debugging of complex issues. Proven track record of success architecting new testing frameworks and improving software quality. Demonstrated ability to lead and mentor teams, successfully challenge the status quo, and deliver high-quality results on time.

EDUCATION

Bachelor of Science, Computer Science (Minor: Math)
University of Arkansas – Fayetteville, Arkansas

Graduated May 2018
GPA: 4.0

PROFESSIONAL EXPERIENCE

ServiceTitan

Senior Staff Software Engineer, Test (Mobile)

May 2023 - June 2026

- Led mobile quality team with up to 8 members (automated + manual, iOS + Android)
- Spearheaded adoption of Claude Code workflows, including local skills for test creation, MCP server for closed-loop iteration, continuous bug triage, and dynamic reports for executive view
- Navigated the team through test framework shifts, transitioning from only black-box UI-based testing toward white-box headless tests that run on the layer beneath the UI
- Scaled team up from 4 to 10 members
- Managed mobile releases for 4 apps with consideration to various backend service timelines

SiriusXM | Pandora

Staff Software Engineer, Android SDET & Dev Experience

Feb 2022 - March 2023

- Led a team of 5-7 SDETs
- Interviewed and mentored apprentices, contractors, and new hires
- Developed framework for native testing of Android Automotive OS (AAOS) applications
- Migrated from Jenkins to Github Actions for CI (continuous integration) testing

Senior Software Engineer, Android Automation

Feb 2020 - Feb 2022

- Architected a novel software testing model (“AOV” Framework) later adopted by adjacent teams
- Reduced duplication in BDD test definitions and developed Gherkin “grammar” system
- Adapted native test infrastructure to handle Compose-based and View-based UI, dynamically

Quality Engineer III, Android Automation

May 2019 - Feb 2020

- Oversaw a major product launch, providing key insights to management during the rollout
- Led expansion into new areas of test coverage such as longevity and network profiling tests

Metova (for SiriusXM)

Lead QA Automation Engineer (Contract)

May 2018 - May 2019

- Overhauled automated testing approach for SiriusXM’s Android app
- Led team of 3 engineers automating hundreds of user stories in 4 months
- Helped manage all streaming client automated testing (Android, iOS & Web)
- Leveraged Espresso for new Android tests, XCUITest for iOS tests, and Appium for legacy tests

Android Development Intern

Jan - May 2018

- Learned essentials of Android app development, including Dagger, Retrofit & View-based UI

Power Plant Engineering Intern – Arkansas Electric

Summer 2014, 2015, 2017

iOS Development Intern – Cerner Corporation

Summer 2016

PROJECT EXPERIENCE

Spaceman — Immersive 3D Camera

Oct 2024 - Present

- Independently designed and prototyped a stereo photography device (pat. pending) combining two iPhones for capture, intended for playback on VR headsets incl. Meta Quest & Apple Vision Pro
- Enables wider field-of-view and higher resolution, frame rate, and depth scale vs. native capture
- Developed iOS app (Swift) for capture and Meta Quest app (Kotlin / Android) for playback
- Developed mechanical device which can align any combination of 21 iPhone models for 3D capture

iOS app *Ask Chad* – *Pocket AI Assistant*

Mar 2023

- iOS app for fast, convenient access to ChatGPT from polished native app
- Developed in Swift, using SwiftUI, with Combine, URLSession, and In-App Purchases
- Backend in Python, incl. REST APIs, JWT auth, email, and transaction processing, on AWS EC2

iOS app *SpotEQ* – *Equalizer for Spotify*

Jan 2014 - Sept 2022

- Full Spotify API integration and advanced audio controls such as crossfade, equalizer & play queue
- \$100,000+ in gross sales, 125+ years cumulative listening time, peaked in Top-10 category ranking
- 4.7-star rating in the App Store as of discontinuation (1,100+ ratings)
- One of 7 apps I published to the App Store since 2013 ([Portfolio](#) of apps released under my name)

Co-Developer, *Hindsight*

Sept - Dec 2017

- Winner of \$16,000 innovation design contest at University of Arkansas
- Designed application using big data (Python) to explain local sales spikes using social media trends
- Implemented the continuous data acquisition pipeline, database, and statistical analysis

RELEVANT SKILLS

- Programming Languages and Technical Skills:
 - Fluent: Swift, Python, Kotlin, Java, Gherkin, Git, MacOS, Espresso, JSON, XML, REST, HTTP
 - Skilled: Bash shell (Unix), XCUITest, Objective-C, Appium, Selenium, Groovy, YAML, NTP
 - Some use: C#, SQL / MySQL, GraphQL, Mongo DB, JS, C++, C, VBA, PHP, HTML
- Extensive experience using LLMs (Claude Code, etc.) to rapidly accelerate project deliverables
- Understanding of LLM context management, Skill and MCP development, and when to use subagents
- Extensive experience writing automated functional tests, with or without mocking (end-to-end)
- Experience re-architecting test frameworks to improve code reuse, simplicity, scalability & reliability
- Experience extending test reports with error classification, screenshot/video capture, and network logs
- Extensive experience with Charles Proxy, incl. HTTP control, rewrite, throttling, and mapping rules
- Experience writing iOS applications in and Android applications in Android Studio
- Experience creating SwiftUI and UIKit-based iOS apps; iOS SDK experience from iOS 5 to iOS 26
- Experience setting up web servers using Python, Java, or PHP, and SQL or NoSQL databases
- Good understanding of networking protocols and configuration (HTTP/S, SSL, DNS, TCP, etc.)
- Experience writing unit tests and native instrumented tests on both Android and iOS
- Experience with various test runners: JUnit, TestNG, XCTest, and Android Test Orchestrator
- Experience extending test runners with exception handling and test step retry capabilities
- Experience researching, identifying, and integrating the best open source libraries where applicable
- Experience using the Page Object Model (POM) and separating low-level from high-level test steps
- Well-practiced in Behavior-Driven Development (BDD), Gherkin, and Cucumber test runners
- Very experienced with CI (Continuous Integration) systems: Jenkins and Github Actions
- Very experienced with Android emulators (mobile, tablet, and automotive), ADB, and logcat
- Extensive experience in quality assurance: identifying valid vs. bug behavior; routing, prioritizing bugs
- Experience converting requirements specifications into automatable test plans (including Gherkin)
- Experienced in the Agile software development process and Atlassian software suite: Jira, Confluence