

Collett Charlton

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CAREER OBJECTIVE

Software Quality Engineer with 5+ years of experience in manual and automated testing. Experienced with Apple's hardware and software ecosystem, skilled in developing and executing comprehensive test plans, identifying and documenting bugs, and communicating technical details with clarity and precision. Eager to contribute to a team by ensuring the products meet the highest standard of quality and reliability before reaching customers. Seeking a role where quality engineering and automation support the delivery of high-quality software.

PROFESSIONAL EXPERIENCE

Software Quality Engineer

Apple, Cupertino, CA

Xcode QE Team (Feb 2024 - Present)

- QE lead for Xcode Downloadables Component qualifying builds and ensuring proper packaging so simulators, metal toolchain, downloadable hardware support and related assets installs and run reliably across supported platforms.
- QE lead for several Xcode tentpole features, designing and executing comprehensive test strategies, developing and maintaining manual and automated test suites, and internal tools to ensure release readiness.
- Partnered with engineers to bake quality in early improving testability, and performance readiness.
- Partnered with cross-functional teams to investigate, triage, and escalate critical issues affecting workflows. Collaborate with Engineering Project Managers on release sign-offs.
- Mentored interns and supported recruiting efforts by sharing their impact.
- Provided data-driven insights to engineering and leadership through detailed quality reporting.

Swift Playground Team (Jan 2020 – Present)

- Partnered with Engineering Project Managers and cross-functional teams to manage release checklist. Validate required release actions and conduct pre-release testing to ensure Swift Playground was ready to ship.
- Served as QE lead for several Swift Playground tentpole features. Designing and executing comprehensive test strategies, developing and maintaining manual and automated test suites, and internal tools to ensure release readiness across supported platforms.
- Produced quality health reports to surface product risks early through close collaboration with engineering, design, and leadership teams.

Software Engineer Intern

Apple, Cupertino, CA

Accessibility Team (May 2019 – Aug 2019)

- Prototyped a new accessibility feature for the iOS SDK with the Accessibility Team.
- Developed application in ObjC for testing and research with prototype feature.
- Partnered with the design team to develop potential research usage for project and presented this work to the executive team.

Software Engineer Intern

Van Andel Institute, Grand Rapids, MI

Pancreatic Oncology R&D Group (May 2018 – Aug 2018)

- Converted a MATLAB prototype of the Segment Fit and Thresholding (SFT) Algorithm into optimized C++ code using the sliding box approach. The SFT is quantitative image analysis algorithm that objectively quantify immunofluorescence signal from a raw image, and build a multilayer image map.
- Led the optimization by effort to reduce runtime from 5hrs to 35mins by removing MATLAB overhead and optimizing the core loops.
- Improved the algorithm's processing efficiency and prepared it for future massive parallelization by developing new code structure and building utility functions for future development of the C++ program.

SKILLS

Technical Skills & Tools

- Cross-functional triage and release readiness, quality reporting, risk escalation.
- XCTest, Swift Testing, GitHub, Shell scripting, Bash, Swift, CI/CD, Test Automation.
- Xcode, App Store Connect, Xcode command line tools, TestFlight.

Quality Engineering

- Test plan creation, manual and automated testing, functional and regression testing.
- Release readiness and qualification, quality metrics and reporting.
- Bug triage and root cause analysis, risk based testing, and escalation.

Leadership & Communication

- Cross-functional collaboration, technical leadership and mentoring.
- Clear written and verbal communication with stakeholders.
- Quality report generation and data storytelling.
- Adaptability, growth mindset, mentoring newer team members.

EDUCATION

Campbellsville University, Campbellsville, KY

Masters of Science in Computer Science, May 2025

Alcorn State University, Lorman, MS

Bachelor of Science in Computer Science, December 2019

MILITARY SERVICE

Cryptologic Warfare Officer (Reserve)

United States Navy Reserve, (Mar 2025 - present)

- US Navy Reserve Cryptologic Warfare Officer, supports intelligence operations with Top Secret/SCI Clearance.