

JOE DUVALL

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Detail-oriented QA specialist with recent software testing & development experience.

OVERVIEW

- Extensive experience developing & executing QA test plans, providing clear feedback directly to engineers.
 - Experience reviewing massive, complex, and unfamiliar codebases to independently isolate the cause of issues.
 - Excellent analysis, testing, and problem-solving skills, along with a honed eye for detail.
 - Effective record of taking initiative to exceed goals, including developing internal team tools.
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EXPERIENCE

Autonomous Vehicle Operations Lead / Autonomous Vehicle Operator – DiDi Labs – 2018-2024

As part of DiDi's Voyager autonomous vehicle R&D team, defined and executed manual QA test cases to provide timely and detailed software performance feedback directly to engineers.

- **Improved team productivity by several hours per day** by developing a script to assemble test reports.
- **Expanded test coverage significantly** by overhauling staging process and doubling manual test cases.
- **Led software deployment effort** for new hardware platform, collaborating with multiple engineering teams.
- **Proven track record of thoroughly troubleshooting issues**, including reviewing recent code changes.
- **Routinely troubleshot issues**, leveraging my experience/insight to get us back on the road sooner.
- **Made decisions about resource allocation**, prioritizing tests and managing personnel on team of approx. 20.
- **Awarded 2nd place** in DiDi Voyager's first annual U.S. Hackathon.

iOS Teaching Assistant – Bucknell University – 2016/2015

Invited by professor of iOS Software Development course to serve as his 1st-ever Teaching Assistant for this course.

- **Improved student productivity and learning outcomes** through detailed tutoring and assistance.

iOS Student Researcher – Bucknell University – 2014-2015

Hired to work on iOS app for Geisinger Health System's Obesity Institute. Met weekly with team from Geisinger to discuss progress and goals. Presented new, modern app design to Geisinger team for feedback/approval.

- **Gained approval for app redesign**; added HealthKit integration + 2 new tools to improve patients' decisions.

Station Manager / Production Manager / Other Positions – WVBU-FM, Bucknell University – 2012-2016

As Station Manager, led staff of 30-40 and chaired the station's Board of Directors. Set up and operated equipment and computer systems, including NAS device for archiving. Wrote scripts to improve station workflows.

- **Single-handedly convinced Bucknell Administration to keep FCC FM license** for the radio station.
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TECHNICAL SKILLS & INTERESTS

APIs: iOS – SwiftUI, HealthKit

Platforms: iOS, macOS, Linux, Windows

Languages: Swift, Python, TypeScript

Applications: Sketch, Photoshop, Audition, Xcode

Areas of Interest: Design, Software Quality, Music & Audio

Let's Chat About: Kirby, *Seinfeld*, Cities: Skylines II, Dance Music, Philadelphia & New York City

EDUCATION

BA in Computer Science – Bucknell University – Lewisburg, PA – 2016.

Courses: Individual Study in CS (Advanced iOS Development), iOS Software Development, Human-Computer Interaction, Programming & OS Design ♦ Awards: Dean's List: May 2016, May 2013

Additional In-Person Training. WWDC (2018), Layers (2017), AltConf (2017), Swift Summit (2016)