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Northville, MI 48167

# Jonathan C. Cardasis

## Senior Lead Mobile Engineer

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### EMPLOYMENT

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#### Lyric Hospitality – Detroit, MI

Oct 2019 – Present

Senior Mobile Engineer & Tech Lead

- Tech Lead for React Native mobile team. People management of 2 in-house developers + 1 external contractor. Manage project release cycles and project planning. (30/70 split of management to coding).
- Leading development on greenfield iOS & Android applications in React Native.
- Primary feature development of Suite Discovery, Booking, Remote Access, In-Unit Smart Devices.
- Created native wrappers (Java + Obj-C node modules) to support Remote Access and Smart Devices within the React Native apps.
- Vertical stack development using React Native, GraphQL, Python Flask, Objective-C / Swift, and Java.

#### The GoodGood Project – Ann Arbor, MI

Aug 2017 – Present

Co-Founder and Tech Lead

- Building Mobile Augmented Reality Experiences & Immersive Technologies.
- Lead team of 4 in creating an immersive application which fosters a positive, meditative experience through the use of Augmented Reality and computer vision.

#### General Motors – Detroit, MI

May 2018 – Oct 2019

Senior iOS and React Native Developer

- Team lead on *myBrand* (*myChevrolet*, *myGMC*, *myBuick*, etc.) suite of iOS applications supporting 4M+ monthly active users. *Objective-C*, *Swift*, *React Native*.
- Developed TINT (typescript interface to native transpiler) – an internal tool which transpiles TypeScript into Swift and Java classes for seamless data operations between React Native and Native portions of our mobile apps.
- Created secure architecture patterns for communication to/from our vehicle fleets in mobile applications. Solutions implemented in C and C++ for iOS.
- Often using tools such as Fastlane and Jenkins to accelerate our development workflow and reduce testing overhead by as much as 30%.

#### United States Department of Defense – Crystal City, VA

Sept 2017 – Sept 2019

Senior macOS and iOS Developer

- Created macOS daemon application which works with the macOS kernel to continuously monitor file modifications, user account changes, and permission escalations. Optimized to use <0.5% CPU usage at any given time. C and C++.
- Developed multiple applications to leverage crypto certificates from government-issued ID cards to authenticate and authorize users on macOS machines.
- Automated our team's mac deployment by building a provisioning tool which images a macOS disk image to be in compliance with DoD secure host baseline regulations.
- Active Secret level government security clearance.

#### Ford Motor Company – Dearborn, MI

Nov 2015 – Aug 2017

Mobile Engineer and DevOps

- Created iOS code signing tool for internal FordPass and LincolnWay mobile applications, allowing for distribution of the applications for multi-national QA testing.
- Developed CI build pipeline for fully automated internal app deployment for FordPass and LincolnWay iOS and Android using Bash, Ruby, and Python.
- Reduced configuration time of macOS machines by creating Bash scripts, reducing setup time from 2 hours to less than 5 minutes.

## Deviceful LLC – Ann Arbor, MI

Sept 2015 – Aug 2017

Founding Partner

- K-12 Education Technologies (EdTech)
- Created Mobile Platforms for K-12 schools, providing administrative tools to faculty such as Targeted Push Notifications, Communication Management, and customizable teacher pages.
- Students enjoyed a single-source to obtain their grade portal, inter-class communications, news & events, homework calendar with sharing abilities, and document storage.

## Quicken Loans – Detroit, MI

May 2015 – Aug 2015

Mobile iOS Developer, Intern

- Sole developer on CreditU (a Quicken Loans credit line proof-of-concept app, *Swift*) and Refer Express (an Objective-C iOS internal referral tool.)
- Developed pre-compile logging module to enable more detailed logging and remove verbose logs within production code, increasing security in our major App Store applications.
- Hosted seminars to teach other interns the basics of iOS development and the Xcode Interface Builder.

## Compuware – Detroit, MI

Jun 2014 – Jul 2014

Agile Performance Management, Intern

- Designed and presented an action plan on how Agile and Lean methodologies can be adopted for greater efficiency to Compuware Executives.

## TECHNICAL EXPERIENCE

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### Open Source // Blog

- <https://github.com/joncardasis> — Check out my public open source work and libraries.
- <https://medium.com/@joncardasis> — My software blog focusing on macOS, iOS, and mobile development.

### Personal Projects

- **Dollar Bill** (2019-Present): A four person effort to develop an iOS app which teaches financial literacy to young persons aged 18-25. *Swift, Objective-C, and Unity (C#)*.
- **GoodGood** (2017-2018): In-progress iPhone application which brings animated characters to life through Augmented Reality where users develop unique and personal relationships with the characters. Multithread tasking system and custom behavioral trees created to power the digital characters. *Swift*
- **Expresto** (2017): iPhone camera application providing video enhancements such as live video filters and green-screen, achieved via GPU acceleration. Created lightning-quick image processing algorithms which take only 6.25 milliseconds (1/160 second) per image. *Swift*

## EDUCATION

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### University of Michigan Dearborn

- B.S.E. in Computer Science

### Certifications

- CompTIA Security+ SY0-401 Certified – Validates knowledge of proper network security skills and practices.

## LANGUAGES AND TECHNOLOGY

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- 7+ years of iOS Development experience with Swift and Objective-C
- C/C++, Swift, Objective-C, Python, Bash, Java (Prior Experience), Android (Prior Experience)
- React Native, JavaScript, TypeScript, Redux, NPM
- Test Driven Development (TDD) and Extreme Programming Practices
- Web service integrations (SOAP, REST, JSON, XML, GraphQL)
- Xcode, Interface Builder, Git, Visual Studio, Unix Shell, Sketch