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# Michael Peterson

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## EMPLOYMENT HISTORY

### **Software Engineer | Blippy, San Francisco, CA**

Aug 2015 - Nov 2015

- Created an event matching system to handle specific keystroke sequences on an iOS custom keyboard
- Built a settings framework directly into the keyboard to allow users to customize keyboard functionalities
- Refactored keyboard codebase from Swift 1.2 to Swift 2 and fixed deprecation issues in Objective-C

### **Software Engineer Intern | Cars.com, Chicago, IL**

Sept 2014 - Dec 2014

- Used JDBC and SQL to query 3 different databases to find car images matching the search parameters
- Engineered server-side code using Java/Spring to handle API endpoint responses from the frontend
- Improved CanJS frontend load time significantly from 5 secs to instant by optimizing the data structure
- Leveraged National Highway Traffic Safety Administration API to fetch vehicle recall information
- Wrote JUnit tests with Mockito to verify backend methods returned expected values from given inputs

### **Undergrad Researcher | North Carolina State University, Raleigh, NC**

June 2014 - Aug 2014

- Used GitHub's API to download user data to estimate a user's trust for another based on interactions
- Wrote a paper based on my findings and whether trust could be useful in recommendation systems
- Coded a Java script to gather data about video recording performance in different recording formats
- Utilized JQuery and Bootstrap to provide a user interface to download and upload documents to Github
- Implemented App Engine to provide an API to parse PDF comments, upload PDF to GitHub repo, and created issues based on the comments to assist in the paper reviewing process

### **Software Engineer Intern | Storyteller Software, Kenosha, WI**

June 2013 - Dec 2013

- Architected and built jQuery frontend for a teaching tool that displays the progress of a student's code
- Created a Python script to generate a standalone version of the frontend for sharing code progress
- Built a custom Java HTTP framework to provide a simple interface for RESTful route handling

## RECENT PROJECTS

### **Kanban | Full-Stack Engineer | <https://github.com/mpeterson2/kanban>**

*Real time web application for planning and tracking the progress of projects using kanban boards.*

- Configured client to communicate with Node API and enabled retrieval of data from Mongo database
- Incorporated Angular and SocketIO into frontend to exchange data in real time between users

### **Turbo Wookie | Full-Stack Engineer | <http://turbowookie.github.io/>**

*A collaborative jukebox web application for listening to music with friends around the world.*

- Designed and built frontend using Dart/Polymer to search for songs and manage/view the playlist
- Added endpoints in Go API and mpd commands to open source library gompd to search/filter songs

### **Save Session | Full-Stack Engineer | <https://github.com/mpeterson2/save-session>**

*An Atom package to restore a user's previous session in the editor.*

- Used CoffeeScript to constantly save the state of opened, unsaved files to restore when Atom is started
- Gained over 43k downloads before the functionality was added to the Atom editor

## LANGUAGES AND TECHNOLOGIES

JavaScript, Node, Java, Angular, jQuery, HTML, CSS, Git, MongoDB, Mercurial, JSON, Android, iOS, Dart, Swift, Go, Ruby, Atom, Eclipse, IntelliJ, Sublime Text

## EDUCATION

**Carthage College** | B.A. Computer Science (3.7 GPA)

2015