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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 (3.6 GPA)

2015