Jack Weber | Software Engineer

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Education

University of Kansas — B.Sc. Computer Science — Expected Graduation: May 2019

Experience

Software Engineer Internship / Part-Time — Service Management Group — Aug 2018 – Current

- Internship during the summer of 2018, then hired part-time.
- Brought SurveyMini, one of our apps, up to a 99% crash free experience, from the previous 87%.
- Played a major role in the creation of our internal Mobile Survey SDK (Native iOS and Android). I created models to keep survey data persistent while users are offline. I also created interfaces for error handling and collecting device data.
- Helped architect a proof of concept for the Survey Kiosk SDK, to extend our current SDK to tablet.
- Gained valuable experience working in an Agile-based environment.

Web Developer — The Tasty Web — Aug 2016 - Mar 2018

- Co-founded a freelance web development startup with a friend and classmate. I gained experience working with clients, working on a team and creating a business model.
- Created a POC for a news aggregator with Ruby on Rails. I used the framework to pull news data from various APIs and RSS feeds. I created cron jobs to deliver a summarized report of a user's sources daily. The reports could be organized by many factors, including popularity and sentiment.

Technical Skills

Languages			Frameworks and Tools
Java	Swift / Objective-C	Python	iOS, Android, Xamarin
C#	JavaScript	Kotlin	React Native, Visual Studio

Projects

2D MRI Projection Creator — CUDA — github.com/jackdweber/MRI_2D_Projection_Creator

- Application that takes in raw 3D data and converts it to a user defined 2D projection (PNG).
- Takes advantage of the CUDA grid to calculate the max or average value for a single dimension.
- Implements common multi-threading concepts such as barriers, queues, and 3D grid delegation.

AR Geo Guesser — ARKit & Swift — github.com/jackdweber/ARGeoGuesser

- Collaborated on this project during the Hack Midwest Hackathon.
- Uses ARKit to display 3D models of national park terrain and has the user guess which park it is.

Serialist.io — React.js — serialist.io

- Application that utilizes the YouTube API to let users add videos to public playlists.
- Uses Firebase for authentication and storing current ranking of playlists.
- Users are able to shuffle playlists, share them via URL, and vote on their favorites.