

## Employment

### Software Application Engineer II, Adoption



August 2016 - Present

- Individually developed new Adoption product line in collaboration with the Software Architect and Project Manager.
- Built robust Adoption Planning and Adoption Navigator features which were quickly adopted by customers.
- Built instant conversions which configure customer environments automatically.

### Software Application Engineer I, Financials



April 2015 - August 2016

- Built applications utilizing Workday's proprietary web framework (XpressO) which is Java-based and Object-Oriented.
- Built over half a dozen Executive Scorecard implementations for my team and presented them to directors and VPs.
- Enhanced the Project Budget Engine to show precise calculation details by designing and implementing schema changes, updating processing for each billable transaction type and improving performance.
- Drove the company-wide refactoring effort for the Financials Projects team leading to 100% compliance for the large legacy code base ahead of schedule.
- Worked in a team utilizing Agile Methodologies and Test-Driven Development.

### Software Application Engineer Intern, Financials



June 2014 - September 2014

- Worked in a team to build an application that visualizes project calendars for project managers.
- Worked independently to develop a mobile implementation of the project view for the Workday mobile app which was showcased on the Workday website and presented to executive and VP-level stakeholders.

### Research Assistant



January 2015 - June 2015

- Individually developed the **Virtual Front View** Android application which streams camera output from one Android device to another utilizing the WIFI-direct protocol and collects data about the reliability of the protocol.
- Reliability was calculated by measuring latency and packet loss in relation to physical distance between devices; data was collected using WireShark and by modifying RTP packet headers.
- Presented my progress and findings in weekly meetings.
- Part of NSF-supported project: *User-Centric Sensing and Distributed Control of Corridor Transportation Networks*.

## Education

### B.S. Computer Science



March 2015

## Projects

**MyOwnFeed: Web** and **Android** application displaying a configurable feed of up-to-date news stories stored in a Postgres SQL database, running on an Apache Tomcat server, processed by Spring, displayed using Android and Thymeleaf, styled with Material Design, and deployed onto Heroku.

**CastAwake:** Android application implementing an alarm clock that when triggered automatically casts a web dashboard to the user's television utilizing Google Cast framework.

**Spree - Speed Reader:** Implemented a Rapid Serial Visual Presentation technique to allow users to read .txt, .epub and web articles at a configurable WPM with word-chunks and punctuation pauses. Free and Paid versions available on **Google Play Store** with over 5,000 downloads and 4+ star reviews.

**Portfolio Website:** Built portfolio site in HTML, CSS and some Javascript. Built with Material Design Lite.

## Languages and Technologies

- Java (primary); SQL; C++; C; Python; CSS; HTML; Javascript;
- Android; Gradle; Git; IntelliJ; Spring; Postgres; Hibernate; Apache Tomcat; Thymeleaf; Heroku; Material Design;