

Education

B.S. Computer Science, Iowa State University

Aug 2014 – Dec 2018

Honors: George Washington Carver Full-Tuition Scholarship, Dean's List 2014-2017

GPA: 3.95

Experience

Google - Software Engineering Intern

May 2017 – Aug 2017

- Developed features for the Play Store app to drive additional downloads in related offerings.
- Optimized search event metadata lookup by ~15% by revamping the search metric infrastructure.
- Worked extensively with the UX team, product managers, and fellow software engineers to design the features.
- Performed A/B testing to ensure implemented features actually outperformed the original features in driving additional downloads.

Google - Software Engineering Intern

May 2016 – Aug 2016

- Built the Today Extension widget for the Play Newsstand iOS app to provide quicker access to articles that are relevant to the users' interests.
- Created original design documents and worked extensively with the UX team to prototype the UI of the widget.
- Implemented analytics on the backend to collect user information to track usage of my feature.

Principal Financial Group - Software Engineering Intern

May 2015 – Aug 2015

- Added a new feature to the First Dental Health web app that allows users to find nearby dentists in their network.
- Implemented a tool to schedule automatic email delivery for payments and claims using C#/.NET and SQL.
- Developed a fully functional budgeting mobile app for PFG Code Jam Competition, which won 1st place among all entries.

Rockwell Collins - Software Engineering Coop

Jan 2015 – May 2015

- Worked on the internal tools team developing Altassian ALM tools to optimize performance on daily tasks.
- Developed a requirements navigation tool that became the most widely used internal tool for Q2 2015.

Agrisync - Software Engineering Intern

Sept 2014 – May 2015

- Implemented a backend system and an automated ticket bot in Node.js. Utilized Recast.ai for NLP for the ticket bot.
- Developed an initial iOS app and then pivoted to a cross-platform Xamarin application.

Projects

State Class Alert - <http://stateclassalert.com> (Swift / JQuery / Node.js / MongoDB)

Spring 2017

Reverse-engineered Iowa State's Classes API and built a web and iOS app to alert students when their classes open up.

eHireMe (Objective-C, Java, Node.js, MongoDB)

Spring 2016

Mobile app designed to intelligently match employers with potential candidates based on experience, location, and interests.

Splash Talk (Java)

Summer 2015

Android app that plays a sound when a text message is received based off of the mood of the text. Implemented using sentiment analysis.

MyDining (Swift)

Fall 2014

Reverse-engineered Iowa State's Flash-based Dining API and created an iOS app allowing students to order food on the go.

**More projects can be found at macliu.net*

Programming Languages & Technologies

Proficient with

Java
Objective-C/Swift
Javascript/Node.js
Python

Familiar with

C/C++
HTML/CSS
C#/.NET

Technologies

Xcode/Android Studio/IntelliJ
MongoDB
Git/TFS
Xamarin/Cordova

Campus Involvement & Awards

Mobile Development Club – Social Chairman

Google Future.CS Program – Organizer

Computational Thinking Workshops – Instructor

HackMidwest – 2nd Place (2014)

HackISU – 3rd Place (2014), Venmo API Winner (2015)

Startup Weekend – 1st Place (2016)