

Education

BS. 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*, Mountain View, CA

May 2017 – Aug 2017

- Developed features for Play Store app to drive additional download in related offerings.
- Worked extensively with UX team, product managers, and fellow software engineers to design app and performed code reviews.
- Performed alpha-beta testing to ensure features I implemented actually outperformed original details page in driving additional downloads.

Google, *Software Engineering Intern*, Cambridge, MA

May 2016 – Aug 2016

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

Principal Financial Group, *Software Engineering Intern*, Des Moines, IA

May 2015 – Aug 2015

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

Rockwell Collins, *Software Engineering Coop*, Cedar Rapids, IA

Jan 2015 – May 2015

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

Agrisync, *Software Engineering Intern*, Des Moines, IA

Sept 2014 – Present

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

Projects

State Class Alert (Spring 2017) (<http://stateclassalert.com>) - Reverse-engineered my university's Classes API and built a web and iOS app to alert students when their classes open up. (Swift, JQuery, Node.js, MongoDB)

eHireMe (Spring 2016) – Mobile app designed to intelligently match local employer with potential candidates based upon experience, location, and interests. (Objective-C, Java, Node.js, MongoDB)

Splash Talk (Summer 2015) - Bring texts to life by adding sound effects based off of the mood of the text. (Java)

MyDining (Fall 2014) – Reverse-engineered the current Flash-based, online ISUWebfood's API and created an iOS app on top of it to allow students to order food on the go. (Swift)

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

Campus Involvement & Awards

Mobile Development Club – Social Chairman

HackMidwest – 2nd Place

Google Future.cs Program – Organizer

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

Computational Thinking Workshops – Instructor

Startup Weekend – 1st Place

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/SQL
Git/TFS
Xamarin/Cordova