# Matthew Krager

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## 🎓 education

**Harvey Mudd College '21**
B.S. Computer Science
CS Principles, Computational Creativity, Discrete Math, Data Structures, Logic

## ☰ skills

**Frontend:** Swift, Vue, ObjC, HTML, CSS, JS, Bootstrap
**Backend:** Ruby on Rails, SQL, AWS, Azure, Relational DBs
**Data:** Octave, Python, R,
**Other:** Java, OOP, Git, Design

## 📓 activities

**5C Software Club**
President and Founder
2018 – Present
- prepared meetings full of presentations and networking
- hosted interview and personal project workshops

**Robotics FRC Team 3309**
President and Programmer
2013 – 2017
- programmed, tuned, and profiled an automatic turreted shooter (2nd at World Champs)
- oversaw 50+ people in team operations with new leadership structure

**Tech and Innovation Club**
President and Founder
2015 – 2017
- exposed students to STEM through opportunities such as presentations and a tech fair attended by 17 companies
- received $1000 grant from Disney

## 💼 experience

**Simpol**                                January 2018 – May 2018
iOS Intern
- Fixed bugs and solidified the user experience by adding new animations
- Constrained the app using Autolayout; iterated until ready for production

**Koder**                                May 2017 – January 2018
Software Developer
- Developed a search algorithm which translated the search query into vector format which was used to calculate a relevance score
- Wrote comprehensive SQL queries and used an ORM to convert query results into model instances for the rest of the team to use
- Actively took part in discussions and meetings regarding database design

Software Intern
- Developed several internal iOS apps including a Tinder-like navigation used to rate the company's potential applicants
- Scraped data from over 10000 online resumes using .NET and stored results in a SQL Relational Database
- Wrote and deployed a Web API to Microsoft Azure in C# for access to scraped data which several intercompany projects presently use

**Google CodeU**                                Summer 2017
- Participated in meetings, mock interviews, and frequent code reviews with a Google Engineer
- Collaborated using Slack, Hangouts, and Github to build a chat app

## ⬡ projects

**Cashpost:** A platform which connects customers to businesses and rewards the customers for sharing their experiences on social media
- Consists of a business dashboard written in vue.js, a rails backend with an API and many scheduled jobs, and an iOS app for customers to use

**Friend Alarm:** An app which allows you to set the noise of your friend's morning alarm; practiced test-driven development when creating the backend

**Lyric Generator:** Bounded an nth order Markov Chain to match rhyme and song structure to generate lyrics; deployed website with flask and heroku

**Quotem:** Social media app that revolves around quoting; designed database schema and wrote backend in Ruby on Rails; deployed on AWS

**Arcade Radar:** Used iOS MapKit to create an app that presents scraped arcade locations and allows users to submit arcade locations

**React Fast:** Mobile reaction game developed using Apple's Sprite Kit

**VEX Scout:** A mobile app which analyzes match data from robotics teams

**Orange County Application:** Built a mobile app in collaboration with FIRST Robotics that modernizes the logistics of a competition