

MATTHEW KRAGER

Software Developer

education

Harvey Mudd College '21
B.S. Computer Science CS
Principles of Computer Science
Computational Creativity
Discrete Math
Data Structures
Logic and Computability

skills

Frontend: Swift, React, Vue.js,
ObjC, HTML, JS, CSS, Bootstrap
Backend: Ruby on Rails, Golang,
SQL, AWS, Heroku, Relational DBs
Design: Photoshop, Sketch, GIMP
Other: Git, Python, Java

activities

5C Software Club
President and Founder

2018 – Present

- prepared meetings full of presentations and networking
- hosted interview and personal project workshops

Major League Hacking
Lead Organizer and Participant

2017 – Present

- organized an MLH Hack Day attended by over 70 and sponsored by several companies

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

Yelp

Summer 2019

Software Intern

- Upcoming Intern on Yelp's Core iOS Team

Koder LLC

May 2017 – May 2019

Software Intern and Developer

- Developed several internal iOS apps in Swift including a Tinder-like navigation used to rate the company's potential applicants
- Designed database schema, wrote comprehensive SQL queries, and used an ORM to convert query results into model instances
- Scraped data from over 10000 online resumes using .NET and stored the results in a SQL Relational Database
- Wrote and deployed a Web API using C# and Microsoft Azure
- Created a search algorithm which ranks results based on relevance score

Simpol

January 2018 – May 2018

iOS Consultant

- Fixed bugs and solidified the user experience by adding new animations
- Wrote code in Swift and created sophisticated ViewControllers with Apple's Auto Layout

Google

Summer 2017

- Built a chat app with a team of 3; participated in code reviews with a Google Engineer

projects

Mentor

- Wrote an atom-integrated cross compiler to translate Python code into Golang and an iPad dashboard to document and showcase the translating process
- Won 1st place at HackCU and was awarded over \$1k in prizes

Cashpost

- Began a platform which allows businesses to reward customers for sharing their experiences on social media
- Consists of a business dashboard written in Vue.js, a Rails backend, and an iOS app for customers written in Swift

Pathway

- Used ARKit and CoreLocation to create an indoor navigation system to lead people with disabilities to the amenities they need
- Placed top 3 at SDHacks and was awarded over \$1.5k in prizes

Orange County Regional Application

- Collaborated with FIRST Robotics to build an app and dashboard that modernizes the logistics of a robotics competition
- The app was live for the event attended by over 2000

React Fast

- Developed a reaction game using Apple's SpriteKit; 3000+ downloads on the App Store

Quotem

- Designed and produced a social media app that revolves around quoting
- Designed database schema and wrote backend with Ruby on Rails

Lyric Generator

- Bounded an nth order Markov Chain to match rhyme and song structure to generate lyrics; deployed website with Flask and Heroku

Coaster Builder 2D amusement park game; awarded Apple's WWDC 2019 Scholarship