

Matthew J. Krager

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Languages

Swift, Java, C#,
Obj-C, Python,
HTML

Technologies

OOP, iOS Dev,
HTTP, Web
Crawling, Git, .NET,
JSON, Control
Systems, Raspberry
Pi, Sketch

Academics

Harvey Mudd College, Class of 2021

Servite High School, Class of 2017

GPA: 3.77 or 4.59 (W), ACT: 34, SAT Math II: 800, Physics: 740

Stanford Pre-Collegiate Institute: Artificial Intelligence (Summer 2015)

Completed daily labs applying concepts learned such as heuristics, decision trees, and the A star algorithm

Experience

Koder Inc.

Remote Employee (August 2017 - Present)

- Created iOS frameworks in swift and demoed APIs for the company

Software Intern (Summer 2017)

- Scraped over 10000 resumes from the web using the .NET Framework and stored results in a SQL Relational DB
- Wrote and deployed a Web API to Microsoft Azure in C# for access to scraped data; used Entity Framework
- Developed several internal iOS apps including a Tinder-like navigation used to rate the company's applicants

Google CodeU: 12-week invitation-only program designed to give exposure to best industry practices

- Participated in meetings, mock interviews, and frequent code reviews with a Google Engineer
- Collaborated with a team of 2 using Slack, Hangouts, and Github in order to build a chat app

VEX Robotics Team 3309B: President (2015 - 2017)

- Led the team from being rookies to becoming State Finalist and qualifying for World Championships

FIRST Robotics Team 3309

President (2016 - 2017)

- Solely programmed and profiled a fully automatic turreted shooter
- Oversaw 50+ people in team operations with new leadership structure

Vice President of Design Engineering & Director of Programming (2014 - 2016)

- Started a team library in Java that centralizes around OOP to promote reusability & easy modification
- Presented weekly design reviews to keep everybody current on the robot's status
- Developed a system for two independent carriages to move in sync using PID controllers

Co-Founder and Co-President of Servite High School's Technology and Innovation Club (2015 - 2017)

- Exposed students to STEM through opportunities such as presentations and a tech fair attended by 17 companies

Personal Projects

Arcade Radar: Used iOS MapKit to create an app that presents scraped arcade info and locations; designed in Sketch

Swift Enjoyment: A biweekly podcast I host discussing the iOS SDK's primary concepts, design patterns, and news

React Fast: Mobile game developed using Apple's Sprite Kit; first app to use original graphics

VEX Scout: Created a mobile application which assists VEX Robotics teams in learning about other teams

Eagle Scout Project: Hosted a robotics scrimmage containing 24 teams; also served as a networking event

Orange County Regional Application

- Built a mobile application that modernizes the key aspects of a FIRST Robotics Competition
- Used the Parse SDK to store data and HTTP requests to get data from an API

Individual Awards

Harvey Mudd FIRST Robotics Scholarship (only recipient)

Principal's High Honor Roll every Semester, Servite High School (2013-2017)

9 VEX and 4 FIRST Robotics Programming-Related Awards (2013-2017)

"Most likely to make a Scientific Discovery" – Voted by Servite Student Body (2016)

National Hispanic Scholar (2016)

VEX Robotics Online Programming Skills World Champion (2016)

FIRST Robotics Team 3309 Dean's List Semifinalist (Equivalent to MVP) (2016)

Disneyland Dreamers and Doers Shining Star: Awarded money funded Tech Club (2015)

Speech and Debate Congress Orange County Finalist (2014)