

Matthew Kelsey

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- EDUCATION** **Georgia Institute of Technology**, Atlanta, Georgia, USA Expected Graduation: May 2022
- Bachelor of Science in Computer Science
 - Cumulative GPA: 3.84 / 4.00
 - Relevant Coursework
 - Intro to OOP, Data Structures and Algorithms, Intro to Discrete Mathematics, Linear Algebra
- EXPERIENCE** Software Engineer Intern at **Cyrus Biotechnology** Jun 2015 – Aug 2018
- 31,434 lines of my Git diff merged into production
 - Components created directly resulted in new customers signing
 - Wrote data visualization components in D3.js saving customers hours of analysis time per protein
 - Refactored development environment decreasing system load by 250%, halving deployment times for all developers
 - Created GUI application allowing scientists to better use command-line science utilities enabling twice as many people to work problems
- PROJECTS**
- AnimAid** (MIT Reality Virtually 2019: 700+ participants)
Developed an AR application to help animators tell stories in 3D space. Implemented a convolutional neural network to create 3D objects based on 2D sketches. Reduced the time from initial concept to finished storyboard by 10x for inexperienced animators.
- TeamTune** (VandyHacks 2018: 250+ participants)
Designed an AR game allowing for collaborative music creation. Wrote Unity Engine scripts for connecting geo-location to audio modulation. Developed an intuitive interface that allowed people who did not play an instrument to create music.
- Overherd** (HackGT 2018: 1000+ participants)
Learned Ionic while writing a Google Maps API powered front-end. Implemented markers and marker clustering using the Google Maps API. Wrote MongoDB geo-spatial queries to intelligently load data relevant to the user. Worked with a team under heavy time constraints.
- Chat Application**
Learned Socket.IO and transmitted 11,092 of messages in the first two years from 17 unique, active users. Used NodeJS for server-side code and MongoDB for storing user data. Used Socket.IO for communication between client nodes and the server.
- Amazon Echo Domino's Pizza API Integration** (2016)
Application to order pizzas, inspired my schools software engineering course curriculum for the following years. This project predated the official Domino's Amazon Echo app. Used NodeJS and a Raspberry Pi running the AVS Devices SDK to make calls to Domino's API.
- LEADERSHIP / ACTIVITIES** **FIRST Robotics Team 2856**, Seattle Academy (high school) Sep 2014 – Jun 2018
- Programming Lead and Driver
 - Lead a team of 4 developers, applying skills learned while working at Cyrus
 - Spearheaded transition to an Agile development cycle
- RoboJackets**, Georgia Institute of Technology Started Aug 2018
- Member of RoboCup and RoboRacing subteams
- SKILLS**
- Languages**
NodeJS (4 years), Java (5 years), TypeScript (3 years), Python (2 years), HTML (5 years), CSS (5 years), Sass (2 years), Golang (1 year)
- Frameworks**
AngularJS (4 years), D3.js (4 years), React with Redux (2 years), Kubernetes (2 years), Docker (2 years), Unity, Socket.IO
- Databases**
MongoDB (3 years), InfluxDB (2 years), CouchDB
- Utilities**
Git (4 years), Node Package Manager (4 years), Unix (4 years), Jenkins (2 years), Emacs, \LaTeX
- INTERESTS** FPV Drone Racing, Ultimate Frisbee, Bouldering, 3D Printing