

**Education**

University of Florida  
BS Computer Science, **GPA: 3.86**

Gainesville, FL  
August 2018 / December 2022

**Work Experience**

**American Express**      Phoenix, AZ      *Incoming Software Engineering Intern*      June 2022 / August 2022

- Incoming American Express software engineering intern waiting on team placement

**Giganetworks**      Miami, FL      *Software Engineering intern*      May 2021 / August 2021

- Lead developer of a team of 3 other Interns to develop a full-stack CRM web application which improved the organization of projects, clients, sales, events, and renewals
- Implemented features such as soft deletes, email reminders, user authentication, and database backups
- Utilized **MySQL, Ruby on Rails, Javascript, and Linux (Debian)**

**Selected Projects** See more here: [matthew-hanson.com/projects](http://matthew-hanson.com/projects)

**Hatch** (Javascript, Firebase, React) [hatchmatch.app](http://hatchmatch.app)

Developed a platform to give college entrepreneurs the tools to connect and grow an idea with 40+ users. Created a real-time chat by using a Firebase Function that listens for changes in the database. Designed a filtering feature that filters users by passions, skills, or city using a Firestore database document that stores user IDs for each topic.

**Mission DM** (Node.js, Express, Firebase, React, Javascript) [missiondm.tuf.com](http://missiondm.tuf.com)

Created a secret agent style game with **100+ users** generating **\$1000+** for Shands Children Hospital. Architected a Node.js backend that assigned and sent out emails with targets for each player every three days. Developed a front end with React.js that interacts with the backend to display targets and eliminate them.

**K-dimensional tree** (Python, Database Implementation)

Created two K-d trees with different splitting algorithms to store multiple dimensional data using python. Developed range queries for both trees that efficiently ran on 2, 3, and 4 dimensional data sets with 2 million records.

**resQ** (Javascript, Firebase, React Native, Express, Node) [devpost.com/software/resq-3tng2a](http://devpost.com/software/resq-3tng2a)

Developed a full stack mobile app with three other students for a UF Hackathon, resulting in **1st Overall**. Created Google Cloud functions to send text messages and implemented user authentication using phone number.

**On Campus Experience**

**Machine Intelligence Lab**      *Undergraduate Researcher*      January 2022 / Present

- Migrating packages from Python 2 to Python 3 for self driving aquatic robots

**UF Association of Computer Machinery**      *Marketing Lead and Vice President*      May 2021 / Present

- Increased ACM virtual membership by over 500 members by making announcements in classes with CS students and reaching out to potential members on social media.

**UF Dance Marathon**      *Technology Captain*      August 2020 / May 2022

- Raised **\$3,000+** for Shands Children's Hospital by reaching out to connections using social media and email
- Collaborated with a team to implement maintenance for the Dance Marathon Website and iOS app using JavaScript, Swift, and PHP

**Skills**

**Programming Languages** Javascript, Java, C++, Python, Matlab, HTML/CSS;    **Frameworks and Libraries** React, React Native, Node, Express;    **Cloud Platforms** AWS, Google Cloud

**Databases** MySQL, Firebase Firestore (NoSQL), Firebase Real Time Database;    **Operating Systems** Linux: (Debian, Ubuntu)