

## Gannon O Barnett

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### EDUCATION

#### Massachusetts Institute of Technology

**Class of 2022**

#### Candidate for Bachelor of Computer Science and Engineering

**GPA 5.0/5.0**

*Cambridge, MA*

- Minor in management; Concentration in Mandarin Chinese (6-3 major 15-1 minor)
- Current: Performance Engineering Software, Applied Probability, Microeconomics, Managerial Finance
- Past coursework: Computer System Engineering, Machine Learning, Software Construction, Design and Analysis of Algorithms, Introduction to Algorithms, Computation Structures, Entrepreneurship in Eng., Interconnected Embedded Systems, Physics E&M, Linear Algebra, Multivariable Calculus, Chinese V

#### Newton South High School

**2014-2018**

- GPA: 3.9/4.0, SAT: 1530/1600 (99th percentile)
- Community Rowing Varsity Crew - U.S. Youth Nationals Silver (2018), Bronze (2017)

### WORK EXPERIENCE

#### Machine Learning Intern

**May – August 2020, returning Fall 2020 part-time**

*Botkeeper*

*Boston, MA*

- Designed and implemented a self-verifying PDF extraction service in python with 99% accuracy for several different classes of documents. In production by end of summer.
- Increasing machine learning model performance by using built framework to better represent data and narrow input/output range.

#### CTO/Lead Software Developer

**January 2019 – August 2020**

*Rentingway, Inc.*

*Cambridge, MA*

- Led the backend design and creation of the beta platform development, including messaging, payment, and property management, and newsfeed services. Managed a team of 3 developers. Backend typescript and GCP, frontend React. Used NoSQL database, a cloud function environment and several outside APIs.
- Raised \$100k through Google Startup Funding

#### Backend + Data Engineer

**January 2020**

*Lark Health*

*Mountain View, CA*

- Created internal command line tool for integrating iOS CI/CD integrating APIs with Ruby
- Developed new data pipeline for Lark separate MySQL and Snowflake tables, conducted high-level design of data processing system as Lark moved from long SQL queries to a python-based system based on functional programming and modularity

#### Computer Vision Engineer

**June 2019 – August 2019**

*Ori Living*

*Boston, MA*

- Independently coded an augmented reality mobile application to display and interact with robotic furniture in any environment. Iterated with feedback of marketing team in a fast-paced startup environment
- Ori published my application to the iOS App Store at the end of my internship. (*App Store: [Ori AR](#)*)
- Coded natively in XCode (Swift) using ARKit

**Independent Projects (while in high school)** - 3 published mobile applications, available on the Apple App Store

### LEADERSHIP EXPERIENCE

#### Scholarship Chair & Brotherhood Development Lead

**May 2019 – Present**

*Sigma Alpha Epsilon Fraternity*

- Organized and budgeted fraternity-wide events to foster a supportive and tight-knit community

#### Varsity Crew Team Member

**September 2018 – June 2019**

*MIT Varsity Men's Lightweight Crew*

- Competed in several varsity races, including the Head of the Charles Regatta in Boston, MA

#### Elected Class Officer

**2014-2018 (4 years)**

*Newton South High School Class Council*

*Boston, MA*

- Planned large school events including Senior prom, Junior semi-formal
- Fundraised over \$2k from local businesses on behalf of Senior class

### SKILLS

**Programming languages:** python, Javascript/Typescript/Node.js, Java, Ruby, MySQL, C++, Swift, HTML, php

**Technologies:** pandas, numpy, pypi, NoSQL (mongodb, firestore), GCP, AWS, CI/CD, React, vim

**Languages:** English (native), Mandarin Chinese (conversational)