

# Aidan Fitzgerald

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## Education

### Cornell University, College of Engineering

*Ithaca, NY*

B.S. IN COMPUTER SCIENCE, GPA: 3.875, DEAN'S LIST (2017)

*May 2020*

- **Relevant Courses:** Digital Logic and Computer Organization, Introduction to Analysis of Algorithms, Networks, Discrete Structures, Introduction to Entrepreneurship for Engineers, Object-Oriented Design and Data Structures – Honors, Linear Algebra, Multivariable Calculus, Machine Learning

### Stuyvesant High School

*New York, NY*

- **Relevant Courses:** AP Computer Science, Systems-Level Programming, Computer Graphics

*June 2016*

## Skills

<b>Languages</b>	Java, Python, C, MATLAB, SQL, Bash, HTML, CSS, JavaScript, Verilog
<b>Libraries &amp; Frameworks</b>	Flask, Django, NumPy, SciPy, JUnit
<b>OS's &amp; Databases</b>	Linux, SQLite
<b>Hardware</b>	Arduino, Raspberry Pi
<b>Tools</b>	Git, Visual Studio Code, Atom, Eclipse, virtualenv, LaTeX, Google Drive, Typeform

## Work Experience

### Department of Computer Science, Cornell University

*Ithaca, NY*

TEACHING ASSISTANT, OBJECT-ORIENTED DESIGN AND DATA STRUCTURES – HONORS

*August 2017 – present*

- Find errors in students' code using the Eclipse JUnit plugin and built-in debugger.
- Administer weekly office hours where students can get help with homework problems, understanding concepts and skills.

### Elixir Labs

*Remote*

SOFTWARE ENGINEER

*May 2017 – Present*

- Develop open-source tools that anyone can use to evaluate the trustworthiness of news websites.

### Kinetik

*Remote*

SOFTWARE ENGINEERING INTERN

*July 2017*

- Designed and implemented a web API for Kinetik's health care billing software using the Django REST framework.

### Morgan Stanley

*New York, NY*

SUMMER ANALYST, ENTERPRISE INFRASTRUCTURE

*July – August 2016*

- Built a distributed file system using EncFS, designed to meet regulatory standards for encrypted public cloud storage.
- Learned about modern cryptography protocols and Linux system administration.

## Hackathons & Projects

### Piecewise Linear Regression

SIDE PROJECT

*September 2017*

- Implemented a machine learning algorithm that uses dynamic programming to find the sequence of line segments that best fit a set of 2-D points using MATLAB.

### PennApps XVI

*Philadelphia, PA*

PARTICIPANT

*September 2017*

- Developed the back end for a mobile app that people can use to arrange meetups with nearby friends using Flask, Geoalchemy, and PostGIS.
- Volunteered at Hack4Impact's Civic Hacking Workshop.

## Life Changing Makeathon

Ithaca, NY

FINALIST

February 2017

- Built an Arduino-based prototype for a smartphone accessory that causes LEDs facing the user to flash when it senses an obstacle.
- Performed market research by surveying other hackathon participants on their cell phone usage habits.
- Created a pitch deck with product information, our business model, and a demo video to present to the judges.

## BigRed // Hacks

Ithaca, NY

PARTICIPANT

September 2016

- Developed an Android app that keeps track of the contents of the user's refrigerator and shows the user recipe recommendations based on its contents.

## def hacks()

New York, NY

PARTICIPANT

April 2016

- Developed a command-line program in Python that pixelates an image by dividing it into 16x16-pixel blocks and computing the average color of each block using NumPy and SciPy.

## Email Client-Server Application

New York, NY

SYSTEMS-LEVEL PROGRAMMING, FINAL PROJECT

December 2015 – January 2016

- Network protocol, command-line client, and server for sending and receiving email using the C socket library.

## BigRed // Hacks — MENTOR

2017 Ithaca, NY

## StuyHacks IV — MENTOR

2017 New York, NY

## Hack Reality (Cornell Virtual Reality Hackathon) — PARTICIPANT

2017 New York, NY

## StuyHacks II — MENTOR

2016 New York, NY

# Leadership & Service

## Cornell CS+Social Good

Ithaca, NY

FOUNDER & PRESIDENT

August 2017 – present

- This year, we plan to develop software for social impact, facilitate community discussions about technology and society, and organize a hackathon.
- Organized and designed the slideshow for an information session, which 19 prospective members attended. Facilitated a group activity in which attendees discussed and then shared the social issues they wanted to work on.
- Designed the website, [cornellcs4good.github.io](http://cornellcs4good.github.io).

## Social Hacks

New York, NY

FOUNDER & EXECUTIVE DIRECTOR

January 2017

- Led a team of 6 to organize a 24-hour hackathon where students solved social problems using technology.
- Persuaded ThoughtWorks to lease us their event space for free in exchange for the title sponsorship.
- Designed the website, [www.socialhacks.tech](http://www.socialhacks.tech).
- Marketed to high school and college students through Facebook and used Typeform, SQL, and MailChimp to manage admissions.

## CSTUY

New York, NY

TEACHING ASSISTANT

July 2015 – May 2016

- Mentored middle and high school students at CSTUY's summer and weekend classes in computer science and software engineering.
- Volunteered as a mentor at CSTUY's winter hackathon.

## Women in Computing at Cornell — REPRESENTATIVE

2017 Ithaca, NY

## Cornell Engineering Peer Advising — PEER ADVISOR

2017 Ithaca, NY

## Splash at Cornell — TEACHER

2016–17 Ithaca, NY