

# Aidan Fitzgerald

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## Education

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### 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

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**Languages** Java, Python, C, MATLAB, SQL, Bash, HTML, CSS, JavaScript, Verilog

**Libraries & Frameworks** Flask, Django, NumPy, SciPy, JUnit

**OS's & Databases** Linux, SQLite

**Hardware** Arduino, Raspberry Pi

**Tools** Git, Visual Studio Code, Atom, Eclipse, virtualenv, LaTeX, Google Drive, Typeform

## Work Experience

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### Department of Computer Science, Cornell University

*Ithaca, NY*

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

*August – October 2017*

- Graded three assignments by finding errors in students' code using the Eclipse JUnit plugin and built-in debugger.
- Administered 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

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### Hilton Latitude

*Ithaca, NY*

HONORABLE MENTION, HILTON × CORNELL HOSPITALITY HACKATHON

*October 2017*

- Designed and prototyped an electronic wristband that transmits its location and serial number via satellite to an emergency dispatch center, so that travelers can conveniently access the local emergency response system even in places with poor cellular service.

### 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, Geolchem, 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.

## Participant, def hacks()

New York, NY

PIXELATOR

April 2016

- 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

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## 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