# Jonathan Wang

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## COURSEWORK

Introduction to SQL
AI Ethics Seminar
Data Structures
Algorithms
Calculus I, II
Linear Algebra
Introduction to Computation
Computer System Principles
Programming Languages
Statistics I

## EDUCATION

**University of Massachusetts Amherst,** Computing Mathematics

**Amherst, MA | Sep 2018 - May 2023 (Taking Gap Year, Sept 2020 - May 2021)**

## EXPERIENCE

**Booz Allen Hamilton,** Software Engineering Intern

**Annapolis Junction, MD | June 2020 - August 2020**
- Built a web app to look at camera footage and detect anomalies with Facebook's Detectron 2 and Machine Learning running on a docker server.
- Worked primarily on the front-end, I created a system capable of taking in an uploaded camera video and displaying a series of results provided from the machine learning model such as the number of anomalies detected.
- Tools I used in this project: Node.js, HTML, Python, Docker, Detectron 2, Github, and a GPU server (to run ML models) provided by Booz.
- This system could detect whether a situation is normal or not before a disaster occurs
- Wrote documentation in order to facilitate the upkeep of the project following the end of my internship.
- Throughout the internship, I developed professional skills by attending tech, leadership, and networking events provided by Booz.

**Talk Hiring,** Web Engineering Intern

**New York City, NY | May 2019 - August 2019**
- Used React and Typescript for front-end and python for back-end
- Participated in code reviews on a weekly basis and  maintain the company's codebase
- Decreased the loading time on web pages by 50% and made responsive web pages across the whole website.
- Scaled the website as user traffic increased linearly overtime.

**Google Inc,** Computer Science Summer Institute

**New York City, NY | July 9, 2018 - July 27, 2018**
-Selected as one of the 30 students who participated in an intensive 3 week programming institute learning web app development in HTML, CSS, Javascript, Python and Google AppEngine from Google engineers.
- Participated in an intensive, three-week coding bootcamp focused on programming and web app development.
- Learned HTML/CSS, Javascript, Python and Google AppEngine from Google engineers over a two-week period.

## SELECTED PROJECTS

**Tempt,** Front-End Developer

**New York City, NY | July 3, 2018 - July 27, 2018**
- Developed and deployed Tempt a time management chrome extension using Python, Javascript, HTML/CSS, Google App Engine, and chrome API during the program's final week. Also learned the chrome extension API and designed the UI of the extension.

**Interest Invest,** Pennapps XVI Hackathon

**Philadelphia, PA | September 2 2018 - September 4 2018**
- Created a web app built with NodeJS, SocketIO, Cheerio, Google Finance API and helps inexperienced investors choose which stocks to invest in.
- Responsible for front-end and scraping information from other websites.

## SKILLS

**Experience with:**

C
Python
HTML and CSS
Java
SQL

**Interested in:**

Mobile App Development
Dynamic Programming
Machine Learning
Low Level Programming

**Frameworks / Libraries:**

ReactJS
Chrome Extension API
Docker

**Other Skills / Concepts:**

Command Line
Chrome DevTools
Github version control
Virtual Box
Vim

## AWARDS

**NYC VR Hackathon -** Received "Best Game award".

**Pennapps -** Received "Best Financial Tech Hack"

## Hackathons Attended

**NYC VR Hackathon 17'**
**Pennapps 18'**
**HackRU 18', 19'**
**HackUMass 18', 19', 20'**
**Yale Hacks 18', 19'**