

# Jonathan Pedoeem

*Innovative, Leader, Highly Motivated Sophomore Looking for Opportunities to Expand my Engineering Skills*

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## Education

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**The Cooper Union**, New York City, NY Electrical Engineering • Math minor • GPA: 3.51 • Expected Grad.: June 2020

**Relevant Courses:** Linear Algebra • Data Structures and Algorithms • Natural Language Processing • Signals and Systems Processing • Digital Logic Design • Computer Architecture • Calc I,II,III • Diff Equations • Probability • MATLAB

**Interests:** Machine Learning • Information Retrieval • Search Engines • Web Development • Entrepreneurship

**Gap Year in Israel**, learned in Maale Adumim 2015-2016, studied Jewish Philosophy and Bible

**Rae Kushner Yeshiva High School**, (RKYHS) Livingston, NJ GPA: 4.41 (weighted) • High Honor Roll • Halpern Merit Scholarship • Graduated June 2015 • Graduation Speaker

**Online Courses** San Jose State University CS46 Intro to Programming in Java • Udacity CS101 Intro to Computer Science (Python) • Udacity CS253 Web Development

## Work, Project, and Leadership Experience

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**Co-Founder and Lead Developer for the Morning Munch LLC** <https://themorningmunch.com>

*June 2017- Present*

- Built a content aggregation app that combines many different feeds into one place
- Responsible for building the website, email service, and backend api, used a MEAN Stack
- Over 200 users and growing

**Research Data Analyst**

*June 2017- Present*

- Analyzing 10 weeks of cellphone data collected at Port Authority Bus Terminal with Professor Shlayan at The Cooper Union
- Currently working on devising a modal to predict arrival and exit rates in the terminal
- Working on building an MM1 Jackson queueing network that will model user movement

**Lead Web Developer for Four Questions of Judaism** <http://fourquestionsofjudaism.com/>

*January 2016- Present*

- Single handedly built website with python on google app engine for users to discuss essays on different philosophical topics
- Weekly emails have 800 subscribers and growing

**Founder of Research Paper Reading Club**

*November 2017 - Present*

- Started and lead club in order to understand and discuss relevant research papers in the STEM field
- Papers Covered: PageRank, Bitcoin whitepaper, Neural Networks, word2vec

**Projects at the Cooper Union**

- Built a coffee can radar as part of Sophomore Engineering Project class, learned about radar, filters, chirp signals, vco, and more
- Used EFM8 for many projects in Computer Architecture class (Freshman Spring), including a stopwatch
- Built three digital logic projects all based on different concepts for Digital Logic Design (Freshman Fall). Built a whack-a-mole game as final project
- Built a flow bench for Cooper Union's motorsports team as part of Engineering Design class (Freshman Fall)

**Mentor at RKYHS Maker Experience**

*Summer 2016*

- Responsible for instructing high school students and helping them build a project
- Responsible for helping establish STEM curriculum at the high school
- Projects included: Portable Water Generator, bicycle electricity generator, and others

**Software Engineering intern at Pagevamp**

*Summers 2014, 2015*

- Responsible for building a web scraper and database for their Facebook page directory
- Built white label license interface [Pagevamp Blog: The Comment that Changed it all](#)

**Developer of SleepWell**

*2013-2014*

- Built a device that users can wear to monitor sleep patterns and act as a smart alarm
- Recipient of the CIJE Young Engineers Conference Award

## Skills, Hobbies, and Honors

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**Highly Proficient**

Python (6+ years), HTML, CSS, javascript, MongoDB, webapp2, bootstrap, spectre.css, web scraping, Microsoft Office, Hebrew

**Proficient**

MATLAB, C, C++, Arduino, Raspberry Pi, MySQL, jquery, angular.js, node.js, express.js, bash, redis, git, gearman, Farsi

**Knowledgeable**

AutoCad, django, EFM8

**Competitions and Honors**

YU Hackathon 3rd place winner • ACM Programming Competition Contestant • CIJE Young Engineers Conference Award • Frederick Douglass and Susan B. Anthony Award

**Hobbies**

Biking, running, coffee shops, world politics, debating