

# Emmanuel Eppinger

Undergrad at Carnegie Mellon (CMU) School of Computer Science (SCS). Currently pursuing a Bachelors of Science in Computer Science with a concentration in Machine Learning, Pre-Law

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## EDUCATION

### Carnegie Mellon: School of Computer Science

#### Bachelors of Science in Computer Science, Pre-Law

Graduation: May 2021

GPA: 3.5

Currently pursuing a Bachelors of Science in Computer Science with a concentration in Machine Learning, Pre-Law. Relevant coursework:

- 10-315: Introduction to Machine Learning
- 21-484: Graph Theory
- 15-381: Artificial Intelligence: Representation and Problem Solving
- 15-251 and 15-252: Great Theoretical Ideas in CS and More Great Theoretical Ideas in CS
- 15-213: Introduction to Computer Systems
- 15-210: Parallel and Sequential Data Structures and Algorithms
- 36-218: Probability Theory for CS

Teaching Assistant for 15-112: Fundamentals of Programming for Spring 2019

## EXPERIENCE

### MongoDB — Software Engineering Intern

May 2019 - August 2019

### Metapac, SuperPAC — Founder & Director: [metapac.org](#)

June 2018 - December 2018

Started SuperPAC political organization with the goal of working to improve education on election finance and research

### Carnegie Mellon, Mobile Commerce Lab — *Web Developer*

June 2017 - August 2017

Developed method for measuring location inside of buildings on Carnegie Mellon campuses using WiFi point metadata, allowing for more accurate location measurement where normal GPS is less reliable

### Carnegie Mellon, Personal Robotics Lab — *Intern*

June 2016 - August 2016

Used eye-tracking data to find key points on objects where users focus. Used this data to create model for important features of objects to create better and more natural interaction between robots and users

## PROJECTS

### Babble: 100% Offline Chat Platform — [eppi.ng/babble](#)

4x winning project at PennApps XVIII, developed completely offline messaging platform. Able to be installed, setup, and used without internet connection. Uses localized mesh network to send messages

### Quel: Schedule Optimizer for Students — [eppi.ng/quel](#)

Calendar optimization tool for CMU students. Built a scheduling algorithm using probabilistic optimization and machine-learning to find optimal work schedule given a student's course schedule, course load, and work habits

### Gentrification Modeling — *Independent Project*

Used Zillow data to develop mathematical model that is able to identify and predict gentrification both historically and in real time.

## Skills

### Languages:

Standard ML  
Python  
Java  
C/C++

### Tools:

MongoDB  
Gurobi  
Tensorflow  
ROS  
OpenCV  
Git  
Unix/Linux

## Patents

### Embedding Ads into User-Generated Content in Real-Time (Provisional):

Find-and-replace functionality but for branded objects in images and video

### Boat Motor with No Moving Parts (Provisional)

### Self-Assembling Reservoir Cover for Drought Ridden Areas (Provisional)

## Interests

### CMU Varsity Swimming:

scoring member of the Championship Team, 3-time AMS Scholastic All-American

### Orientation Staff:

Orientation Counselor for Donner House

### Hackathons:

Participate in hackathons regularly: Pennapps, Hack CMU, Tartan Hacks