Emmanuel Eppinger

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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

EDUCATION

Carnegie Mellon: School of Computer Science

Bachelors of Science in Computer Science, Pre-Law

Graduation: May 2021 GPA: 3.6

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 SuperPAC related 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 and expect a robot to use when interacting with the environment to find key points by mapping concentration of eye gazes and identifying high-concentration points

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

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

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 and the School of Computer Science

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