Emmanuel Eppinger

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EDUCATION

Carnegie Mellon: School of Computer Science

Bachelors of Science in Computer Science, Pre-Law

Graduation: May 2021

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
- 15-445: Introduction to Database Systems*
- 15-440: Distributed Systems*
- 15-381: Artificial Intelligence: Representation and Problem Solving
- 15-312: Principles of Programming Languages*
- 36-401: Modern Regression*

*fall 2019

SOFTWARE EXPERIENCE

MongoDB — Software Engineering Intern: go.mongodb.com

May 2019 - August 2019

Working as part of a team to build driver for Google's GoLang. Helped build and maintain a large codebase that is used by over 30000 developers who use MongoDB in GoLang. Worked on all parts of the driver, from high-level API design to low-level implementation of database wire protocols.

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 a model for important features of objects to create better and more natural interaction between robots and users

LAW EXPERIENCE

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

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

Memory Allocator: 15-213 MallocLab — eppi.ng/malloc

Built and optimized explicit memory allocator with highest memory utilization of all students in the course.

Poze: API for Identity verification and 2FA — StrikeAPoze.tech

Built an API that allows developers to verify ownership of accounts. Performs a CAPTCHA by asking users to photograph themselves to perform simple tasks. Verifies face of user against reference images to confirm identity.

Skills

Languages:

GoLang
C
Python
Java
Standard ML
C++

Tools:

MongoDB
SQL
Gurobi
Tensorflow
ROS
OpenCV
Git
Unix/Linux

Interests

CMU Varsity Swimming:

- Scoring member of the Championship Team
- 2-time NCAA B-cut Qualifier
- 3-time AMS Scholastic All-American

Orientation Staff:

- Orientation Leader for the School of Computer Science and Donner House: 2019
- Orientation Counselor: 2018

Teaching Assistant:

- Teaching Assistant for 15-112: Fundamentals of Programming
- 07-131: Great Practical Ideas in Computer Science

Student Government:

- Representative for School of Computer Science in Undergraduate Student Senate
- Member of Academic Affairs Committee
- Worked on academic policy issues from Add/Drop deadline changes to Transcript Release Policies