



Nareg Megan

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Education

UNIVERSITY OF CALIFORNIA, BERKELEY | **B.A. COMPUTER SCIENCE AND APPLIED MATH** | **AUGUST 2018 - MAY 2022**

Relevant courses: Structure/Interpretation of Computer Programs, Data Structures, Discrete Math and Probability, Integrative Biology, Multivariable Calculus, Chemistry. (GPA: 3.70 / 4.00)

UNIVERSITY OF WISCONSIN-MADISON | **NON-DEGREE SEEKING** | **SEPTEMBER 2017 - MAY 2018**

Linear Algebra and Differential Equations, CS 300, CS 400 (Java, algorithms, data structures).

Experience

SOFTWARE ENGINEERING INTERN | **DIRECT REAL ESTATE BROKERAGE PLATFORM** | **MAY 2019 - AUGUST 2019**

- Built data intake pipeline using image/text processing and optical character recognition (OpenCV, regex, etc..).
- Utilized Google Cloud APIs such as Google Vision and Gmail.
- Designed API used to integrate backend functionality with ReactJS frontend.
- Helped create tests and integrate platform for product release.

ACADEMIC INTERN | **UC BERKELEY EECS** | **FEBRUARY 2019 - MAY 2019**

- Answer questions during lab and office hours pertaining to Python, Scheme, SQL, or any other course topics.
- Resolve technical issues with both the students and the course including homework and project submission errors.
- Conduct comprehension checks with students to verify their understanding of OOP, functional programming, etc...

DATA ANALYTICS INTERN | **WISCONSIN PARTICLE ASTROPHYSICS CENTER** | **JUNE 2017 - AUGUST 2017**

- Used Python and SQL to analyze neutrino data and develop datasets of commonly misclassified neutrino events from the IceCube neutrino detector.
- Leveraged a platform called Zooniverse for human analysis of data which improved the quality of the training data.
- Improved neutrino classification algorithms (SVMs, neural nets) using curated data.

Leadership / Organizations

ML DEVELOPER | **CAL LAUNCHPAD** | **FEBRUARY 2019 - PRESENT**

- I worked in a team with a lab focusing on evolutionary biology (Moorjani Lab) to enhance ancestral genetics tracing using combinations of machine learning techniques (recurrent convolutional networks, HMMs, SVMs).
- Advances in genetic tracing could allow us to more accurately trace diseases and understand adaptation.

SOFTWARE DEVELOPER | **OPEN SOURCE AT BERKELEY** | **FEBRUARY 2019 - PRESENT**

- We work on brainstorming and developing open source libraries for UC Berkeley and the broader software community.

FOUNDER / PRESIDENT | **INVESTMENT CLUB** | **DECEMBER 2015 - MAY 2018**

- Gathered initial members, entered club into competitions, contacted and talked to potential guest speakers from financial firms in the area.
- Gave presentations on topics like options trading, micro/macro analysis, algo-trading, and cryptocurrency.

Skills

Programming: Python, Java, SQL, Scheme (Lisp), Git, TensorFlow/Keras, JavaScript, Google Cloud, Swift

Concepts/Algorithms: Fundamental algorithms (graphs, trees, hashing, etc), deep learning, RL, HMMs, SVMs, NLP

Projects

ARTIFICIAL NEURAL NETWORK LIBRARY IN JAVA | **REDDIT BASED CHATBOT** | **DATA COLLECTOR (WEB SCRAPER FOR ML DATA)** | **DEEP LEARNING STOCK TRADING BOT**