Nareg Megan

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Education

UNIVERSITY OF CALIFORNIA, BERKELEY | COMPUTER SCIENCE   AUGUST 2018 - MAY 2022

Relevant Courses: Structure/Interpretation of Computer Programs, Computer Architecture, Computer Engineering, Operating Systems, Information Devices and Systems (EE), Data Structures, Algorithms, Discrete Math and Prob., Multivariable Calc, Lin. Alg. and Diff Eq., Physics (E&M), Chemistry (course spec. GPA: 3.64 / 4.00) *=currently enrolled

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

CS 300 (Programming II), CS 400 (Programming III): Java, algorithms, data structures.

Experience

SOFTWARE ENGINEER INTERN | PLATFORM9   JUNE 2020 - PRESENT

- Currently working as a full time software engineer intern at Platform9, a company that creates, manages, and scales cloud infrastructure.

TUTOR, COMPUTER ARCHITECTURE | UC BERKELEY EECS   JUNE 2020 - PRESENT

- Teach groups of students about C/low-level code, assembly code, basic microprocessor design, computer memory, and data/thread-level parallelism.
- Help students in labs, discussions, and office hours.

RESEARCH ASSISTANT | BERKELEY BIOMIMETIC MILLI-SYSTEMS LAB   AUGUST 2019 - JAN 2020

- Worked in a group of undergraduate researchers on multi-robot cooperation.
- Used tools like VREP, CAD, ROS, and physical robots to test and improve path finding, cooperation, and task completion abilities of a group of connected robots.

SOFTWARE ENGINEER 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.

LAB ASSISTANT, INTRO COMPUTER SCIENCE | 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 ICECUBE 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

- Work in teams to create useful or interesting applications of recent ML research (projects indicated by * below).
- Lead interactive workshops on ML topics ranging from unsupervised learning to deep RL. Work with outreach team to involve more communities in ML and offer our services to external organizations.

Skills

Tools/Software: Python/Java/C++/C, Assembly (RISC-V, x86), Git, ML (TensorFlow/Keras), OS (Linux), Networking (Go)

Engineering: Analog/Digital circuit design (Multi-sim), PCB design, VREP/MuJoCo, ROS, Verilog/RTL, embedded sys.

Projects

ARTIFICIAL NEURAL NET LIBRARY IN JAVA | REDDIT BASED CHATBOT | DEEP LEARNING STOCK TRADING BOT |
MOORJANI LAB PROJECT* | VQA* | EMERGENCE* | VERILOG GENERATOR FOR HFT (MOST RECENT)