NISHA PRABHAKAR

Pleasanton, CA, 94588   (925)-353-4497   nisha.p@berkeley.edu

Student at UC Berkeley majoring in Electrical Engineering and Computer Science seeking summer 2021 internship.

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
Major: *Electrical Engineering and Computer Science (EECS)*
Current GPA: *3.957*   **Berkeley, CA**
Graduation Date: May, 2023
- Key Courses
    - Computer Science 61A: The Structure and Interpretation of Computer Programs
    - Electrical Engineering and Computer Science 16A: Designing Information Devices and Systems I
    - Computer Science 61B: Data Structures and Algorithms
    - Electrical Engineering and Computer Science 16B: Designing Information Devices and Systems II
    - Computer Science 61C: Great Ideas of Computer Architecture (Machine Structures)
    - Computer Science 70: Discrete Mathematics and Probability Theory
- Extracurriculars
    - UC Berkeley Solar Vehicle Team (CalSol)
    - Association of Women in EECS (AWE)
    - Eta Kappa Nu (HKN), the National Electrical and Computer Engineering Honor Society
- Languages: English (Native Proficiency), French (Professional Proficiency)

SKILLS

- Proficient in Java, Python, HTML, and Linux/Unix; Experience in Ansible, mySQL, Data Modeling
- Proficient in CAD, particularly the programs Maya and Fusion 360

PROFESSIONAL EXPERIENCE

LAWRENCE LIVERMORE NATIONAL LABORATORIES HPC INTERN   **Livermore, CA**
June 15, 2020 – present
- Installed a cluster on high performance system, configured network connections and installed relevant packages
- Created a central database which stores information about node configurations for nodes in HPC system
    1. Database is easily queried from anywhere within the system
    2. Database updates when a change to node configuration is made

EECS16B LAB ASSISTANT   **UC Berkeley**
January 2020 – May 2020
- Assisted students with lab experiments
- Answered questions and quizzed students to test their understanding of the material
- Developed content for the shift from in-person to online lab sections
- Debugged labs to make sure they run smoothly and do not contain errors

CS61A ACADEMIC ASSISTANT   **UC Berkeley**
January 2020 – May 2020
- Guided students to the correct solution/algorithm in their lab assignments
- Assisted with larger projects and answered conceptual questions

ACADEMIC PROJECTS

uMaps   **TreeHacks (Stanford)**
February, 2020
- iOS application that integrates Google Maps with an indoor map of buildings at university campuses
- Provides a comprehensive map of rooms within buildings and displays walking directions between rooms

Text Message Analyzer   **Independent Project**
May, 2020
- Used Google's natural language processing model, BERT, as the main method of analyzing data
- Used BERT's word embeddings and sklearn's logistic regression to train a linear model in order to classify the author of
    a text message
- Used BERT's word embeddings and T-SNE to graph our texts in three time periods to pinpoint the large differences
    between these areas of time

AWARDS

OUTSTANDING ACHIEVEMENT IN SCIENCE   **Sandia National Laboratories, Livermore, CA**
Foothill High School   *April 2018*
NATIONAL MERIT SCHOLAR   **National Merit Scholarship Corporation**
Foothill High School   *March 2019*