ENIKA BISWAS

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EDUCATION

UCLA, Los Angeles, CA
Pursuing *Bachelor of Science degree in* **Computer Science and Engineering**
Expected graduation **June 2021**
Relevant courses: Java programming, Introduction to C++ programming, **Data Structures**, **Computer Architecture** in C and Assembly, **Discrete Mathematics, Algorithms** (expected)

EXPERIENCE

Software Research, NASA Ames, Mountain View, CA June 2016 – August 2016

- Developed a web-application built on NASA's WebWorldWind SDK that observes live anomalous electro-magnetic field fluctuations to accurately forecast an earthquake a specified region
    - Parsed and filtered magnetometer data sampled at 123 Hz and earthquake data with **pandas dataframe and numpy**

Software Developer Intern, NASA Ames, Mountain View, CA July 2018 – Present

- Developing a feature to NASA's WebWorldWind application that displays monthly change in precipitation and temperature in a location that the user defines.
    - Database developer using **MongoDB** to collect weather/climate data
    - Developing full stack application with a **Node.js+Express** backend and a front-end that uses the **Handlebars framework** in **Javascript** and **HTML**

ACTIVITIES/PROJECTS

Cubesat development Rocket Project, UCLA March 2018 – June 2018

- Designed a cubesat (10 by 10 by 10 cm cube) that was competed in the Spaceport America competition
    - Analyzed **IoT** sensor tile IMU data to predict location and an Arduino with a GPS and radio module to transfer GPS location in real time

Mood tracking app LA Hacks, UCLA April 2018 - Present

- Using **Google Cloud API** to create a digital diary that extracts what are things that the user values highly that are negatively affecting them and informs the user on their progress on dealing with those things. Uses **Entity Sentiment Analysis**.

TECHNICAL SKILLS

- C++ (strongest), C, Java, Python, JavaScript, HTML, CSS

AWARDS/HONORS

- Europa Challenge 2016: First Place for Earthquake application data optimization and signal precursors and Second Place for overall application