Koushik Sridhar

Neuroscience/Computer Science Double Major

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About Me

Programming Tools C/C++, Python, Java, HTML/CSS, JavaScript, MATLAB LaTeX
Software/Platforms Git, Amazon Web Services, TensorFlow, Adobe After Effects, Final Cut Pro
Languages English, Tamil, Spanish
Interests Artificial Intelligence, Healthcare, Financial Market Analysis, UI/UX Design, Video Editing

Work/Research Experience

AzureWorks
Founder/CEO Charlotte, NC (Oct 2019 - Present)
- Created and am leading an organization that prototypes medical devices.
- Currently working with the Parkinson's Association of the Carolinas and medical professionals to develop and test products for medical use.

Parkinson's Association of the Carolinas
High School Lead Charlotte, NC (Dec 2016 - May 2020)
- Developed and organized the "Parkinson's Talk Initiative" to increase awareness for the disease. Raised $1,500 due to the initiative.
- Helped organize annual symposiums for Parkinson's patients to increase knowledge on the latest information from the field.

Translational Vision Lab - Research Science Institute (RSI)
Researcher Northeastern University/MIT, Boston Area, MA (June 2019 - August 2019)
- Worked with Dr. Anna Kosovicheva and Dr. Peter Bex on a computational method to analyze localization errors in the visual field of humans. This was the first work of its kind.
- Created a paper titled "Image Predictors of Visual Localization Errors in Natural Scenes" which was accepted into the Vision Sciences Society 2020 conference.

Sung Lab
Research Intern UNC-Charlotte, Charlotte, NC (June 2018 - August 2018)
- Worked with Dr. Way Sung to develop a computational framework to identify CRISPR sites for genetic engineering.
- Performed CRISPR transformations on Paramecium species.

Competitions and Personal Projects

Stock Market Prediction Algorithm (May 2020)
- Developed a machine learning algorithm dedicated to predicting next day movements for 5 stocks.
- Wrote a bot to day-trade according to the model predictions on Investopedia.

Intel International Science and Engineering Fair (May 2016, 2017)
- Competed in the world's largest high school research fair.
- Won the Oracle Academy Award twice, winning $10,000 total, and won a Honorable Mention in the INCOSE magazine (2016)

AzureWare (2016 - Present)
- Developed an Android App for the Early Diagnosis and Progressive Monitoring of Parkinson's Disease.
- Built machine learning models to analyze vocal characteristics of Parkinson's patients/non-patients
- Created an algorithm to monitor Parkinson's Disease via tremor analysis.

Education

University of North Carolina - Chapel Hill Chapel Hill, NC (2020–Present)
- Neuroscience (B.S) and Computer Science (B.S) through Honors Program
- GPA: 4.0

North Carolina School of Science and Mathematics Durham, NC (2016–2020)
- GPA: 4.625