

Sydney Le

Electrical Engineer

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Location: 7600 Kirby Dr Apt 567, Houston, TX, 77030

Detail-oriented Electrical Engineering major (3.80 GPA) attended University of North Texas, with 2.5+ years of research experience and attending Rice University to seek a Master of Engineering in Electrical and Computer Engineering in Data Science. Seeking to apply my experience in project planning, object-oriented coding and communication design skills to successfully fill the Engineering intern opportunity at your organization. Frequently praised as hard-working by my peers, I can be relied upon to contribute to your organization achieve its goals.

Education

RICE UNIVERSITY

Aug 2021-Present

Degree: MEng in Electrical and Computer Engineering: Data Science

UNIVERSITY OF NORTH TEXAS

Aug 2017- May 2021

Degree: B.S. Electrical Engineer

Minor: Computer Science, Mathematics, Music

Cumulative GPA: 3.80

Work History

DATA SCIENCE CODING INSTRUCTOR

AI Camp, Remote - Oct 2021 – Present

- Teach children from ages 13-16 from various coding backgrounds various levels of coding in python
- Assist students in the creation and development of AI software
- Help students learn how to maintain and fix code in various formats

UNDERGRADUATE RESEARCH ASSISTANT

University of North Texas, Denton, TX - Oct 2020 – April 2021

- Designing an algorithm on sensor networks and the rerouting of pathways due to broken sensors using machine learning
- Researching library reference materials for necessary research information
- Preparing and maintains files of research materials

VOLUNTEER UNDERGRADUATE RESEARCHER: GRAPH THEORY/GAME THEORY

University of North Texas, Denton, TX - May 2019 – December 2020

- Constructed and recorded proofs over the minimal set of vertices and iterations for zero forcing on various types of graphs (Draft is available upon request)
- Coordinated papers and communications between students and mentor
- Collaborated with mathematic students, physics students and biochemistry students to build problem-solving skills and effective strategies for end-goal
- Created presentation that was displayed/presented at undergraduate mathematics convention

Projects

Fourier Neural Operators to Solve Partial Differential Equations

December 2021

- Employed convolutional neural network to solve PDE for infinite dimensions
- Tested and created new model to improve performance of solver

GESTURE DETECTION A.I. GLOVE

November 2020

- Utilized Support Vector Machine Algorithm to detect seven unique gestures: "Move Up", "Move Down", "Move Right", "Move Left", "Move in a Square", "Shake Device" and Number "9"
- Took data from accelerometers, gyroscope, and magnetometers to create a set data and the applied SVM to the data set to obtain and accuracy of 98.7%

Skills

Proficient: C, C++, Python, R, SQL, MATLAB, HTML, CSS, JavaScript, Linux, Excel Specialist

Other Technical Skills/Known Software: PSpice, NI Multisim, Cadence, SmartSim, Electric, Basic AWS Experience

Soft Skills: Creative-Problem Solving, Persistence, Teamworking, Stress Resistant, Leadership

