William A. Avery

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EDUCATION

The University of Texas at Austin Spring 2022
Bachelor of Science, Electrical and Computer Engineering Honors
Overall GPA: 4.0

EXPERIENCE

University of Texas at Austin Fall 2020 - Present
Undergraduate Tutor; Austin, TX

- Tutoring students in Signals and Systems and Linear Algebra for the Electrical and Computer Engineering department

Applied Research Laboratories Summer 2020
Student Technician – Software Development Engineering; Austin, TX

- Created a Gitlab utility using React, Node.js, Express.js, and MongoDB that allowed a user to customize their deployment and launch cycle
- Integrated a multi-page React application with a C++ backend web server using libwebsockets

Bilingual Annotation Tasks Force (BATs) Spring 2019 – Spring 2020
Undergraduate Researcher; Austin, TX

- Trained part of speech taggers for codeswitched texts using *Flair*, a Natural Language Processing tool
- Processed data for machine learning tasks using NumPy and pandas

University of Texas at Austin Spring 2020
Undergraduate Teaching Assistant (Probability and Random Processes); Austin, TX

- Assisted a classroom of 70 students with homework assignments and probability concepts via weekly office hours and online discussion forums
- Provided feedback on homework assignments to improve students' overall success in the course

Ubiqum Code Academy Summer 2019
Product Development Intern; Barcelona, Spain

- Proposed a new Business Intelligence course to the CEO and COO planned to test launch as an alternate test path for struggling students
- Created the presentation for the Java Web Development program proposal to Deutsche Telekom

SKILLS AND COURSEWORK

Technical Skills: C/C++, Java, Python, JavaScript, HTML/CSS, React, Node.js, MongoDB, Linux OS, MATLAB, scikit-learn, REST

Relevant Coursework: Software Design and Implementation I (Data Structures/OOP); Algorithms; Data Science Lab (Spring 2021); Data Science Principles (Spring 2021); Discrete Mathematics; Matrices and Matrix Calculations; Probability and Random Processes; Real Time Digital Signal Processing Lab; Digital Signal Processing