

# William A. Avery

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## EDUCATION

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### The University of Texas at Austin

Spring 2022

Bachelor of Science, Electrical and Computer Engineering Honors

Overall GPA: 4.0

## EXPERIENCE

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### 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

### Ubiquim 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

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**Technical Skills:** C/C++, Java, Python, JavaScript, HTML/CSS, React, Node.js, MongoDB, Linux OS, MATLAB, scikit-learn, SQL, REST, LC3, ARM Cortex-M4F, Digital Multimeter, Logic Analyzer, Oscilloscopes

**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