SEBASTIAN MENDOZA

(713) 998-0884 • Sebastian1@tamu.edu
Personal Website: sebastian46.github.io

EDUCATION

Texas A&M University   College Station, TX
Bachelor of Science, Computer Engineering   Aug. '16–Dec. '20
- Cumulative GPA: 3.19
  - Major Coursework GPA: 3.62
  - Awarded Dean's Honor Roll in Fall 2018 for exemplary performance in academics.
- Related Coursework: Software Engineering Studio, Microprocessor System Design, Design and Analysis of Algorithms, Computer Architecture, Statistics

WORK EXPERIENCE

Sketch Recognition Lab (Texas A&M University)   May '19–Sep '19
Undergraduate Research Assistant
- Created a canvas that stores the user's signature in a database using **ReactJS** and **Node.js**
- Connected database to front-end using **Sequelize** for user storage and bcrypt.js for encryption
- Presented and demonstrated results of individual and team research once a week

PROJECTS

Industrial Instrumentation System (Capstone Project)
Group Project
- Responsible for setting up a **SQL** database, creating a user interface, and connecting the two systems to allow remote access to information
- Used **D3.js** to create multiple dynamic graphs which receive values based on readings sent to the **SQL** database. Requests to the database were handled using **PHP** and **Ajax** requests
- Completed 1.5 months ahead of planned deadline

IMDb Project
Group Project
- Led team of 3 engineers by setting up two weekly meetings to discuss progress and ensure we were on pace to complete the project by the given deadline.
- Imported necessary table data into our **SQL** database and verified its correctness through the use of PSQL and SQL commands
- Designed and developed GUI to interface our IMDb using **Swing** and **AWT (Java)**
- Gained an understanding of how to use GitHub to share code with team

Single-Cycle Processor
Individual Project
- Integrated components of 64-bit Single-Cycle Processor using **Verilog**, which utilizes a subset of **ARMv8** instructions
- Verified that the proper output was produced through extensive test benches
- Completed 2 months ahead of the scheduled deadline

Mountain Paths
Individual Project
- Applied knowledge of **C++** to develop a program which finds the safest trail in a mountainous area
- Utilized to advise hikers on what the best trail is in order to reduce the risk of injury or getting lost

SKILLS

Programming Languages
C++, Python, Javascript (Node.js, ReactJS, Ajax, Bootstrap, JQuery HTML, CSS), PHP, Java (Swing, AWT), SQL