Ezra Jeter
·ezra@tamu.edu · LinkedIn · GitHub ·Personal Website

EDUCATION

Texas A&M University   College Station, Texas
Major in Computer Engineering; Minors in Mathematics, Cybersecurity   Expected May 2025
GPA: 3.63/4.0; Craig and Galen Brown Engineering Honors, Electrical Engineering Scholar Award

EXPERIENCE

Blackland Research and Extension Center - Software Intern   May 2023 - August 2023
- Oversaw transition from centOS to RedHat Linux on team machines/servers.
- Created a HPC cluster from scratch to continuously run CPU-intensive simulations in parallel managed by SLURM.
- Created and maintained a Postgresql database server to store and access simulation results, along with an R script which automatically organizes and inserts computation output into the database remotely.
- Used Selenium to write a web scraping tool that utilizes a depth first search algorithm to find and download all files of a specified type within any FTP server.

Providence Preparatory School - Software Developer   October 2022 – January 2023
- Created an automated Playwright process that allows forms submitted by students through the Blackbaud school app to dynamically export onto various spreadsheets accessible to staff.
- The automation script is controlled by a React frontend UI and is bundled into an Electron.js desktop app.

Secure and Trustworthy Hardware Lab - Research Assistant   May 2022 – August 2022
- Wrote Python script that parses a combinational or sequential circuit benchmark written in Verilog, and creates a JSON file representation of a circuit graph to display the circuit's hardware characteristics.
- Developed a Python algorithm that, given a locked gate, parses a circuit graph JSON file, finds the percentage of shared inputs between each gate and the locked gate, and then writes this information onto a CSV file using the Pandas Library.
- Created demonstration of circuit synthesis using yosys, a gate synthesis tool, for professors and doctoral students.

ACTIVITIES AND LEADERSHIP

Aggie Coding Club - Officer, Chair, Vice President   May 2022 – Present
- Serve as the Chair of the Events and Marketing team to cultivate member engagement, retention, and overall club growth for the largest computer-focused student organization on campus.
- Saw an 88.3% increase in average meeting attendance in the first year as events and marketing officer.
- Help maintain the official organization website as Webmaster.
- Served as project manager for a team of 33 students to create a Chrome browser extension that presented users with the ability to enhance the functionality and aesthetic of their canvas home page.
- Created a Python script that pulls details from a csv, then utilizes smtplib and ssl to create and send personalized emails to mailing lists of members and sponsors, increasing the efficiency of club communication and engagement.

Cyber Security Club - Officer, Committee Member   Sept 2021 – Present
- Participated in 2021 Winter Break RHA Linux Bootcamp, gained experience in pen-testing during Hack-The-Box, qualified to compete with TAMU in the 2022 Spring National Cyber League games, and competed in TAMUctf.
- Serve as a Treasurer for the club, helping to oversee org finances and manage the club's six-figure endowment.
- Serve on the Tech Committee, which oversees the club website and a discord bot that maintains a server of 1000+ members.

PROJECTS

File Cabinet   Aug 2022
- Participated in a 3-week development sprint with a team to create a simple note-taking website called "File Cabinet"

Interdisciplinary Research in Nautical Archaeology and Computer Science   Nov 2021 – May 2022
- Used Blender to model a scale 3D medieval church for the Santarem GIS program being developed by the TAMU Shipwrecks and Computers Research Lab in cooperation with Universidade Nova de Lisboa in Portugal.

SKILLS

- **Languages**: Python, SQL, C++, C#, JavaScript, Verilog, HTML, CSS, ARMv8 Assembly
- **Tools**: Pandas, MatPlotLib, React, Node, Express.js, MongoDB, Mongoose, Pipedream, Playwright, JSX, Electron, Selenium
- **Misc**: LaTeX, Blender, Yosys, ABC, Git, Github, Linux, LTSpice, SLURM, Postgresql