

Jaden Banze

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EDUCATION

Texas A&M University

College Station, Texas

B.S. Electrical Engineering, Minor in Computer Science

August 2020 – May 2024

- **Relevant Coursework:** Data Structures & Algorithms, Computer Architecture, Digital Logic Design, Machine Learning, Operating Systems, Database Systems, Security of Embedded Systems, Digital Integrated Circuits
- **Societies:** TAMUhack (Tech Director), IEEE (Public Relations Officer), Aggie Club of Engineers (Philanthropy)

EXPERIENCE

McDonald's Corporation

Chicago, Illinois

Fullstack Software Development Engineer

August 2024 – Present

- Pioneering accessible tools and feature development changes for global kiosk platforms using **Angular** and **C#**.
- Developing and deploying user experience transformations to improve kiosk conversion rate for customers.
- Modernizing reusable frontend components from legacy components to improve performance and time-to-boot.

McDonald's Corporation

Chicago, Illinois

Software Development Engineering Intern

June 2023 – August 2023

- Designed and developed accessibility features for restaurant technology in **13,000+ restaurants** across the US.
- Deployed a translation toggle feature for restaurant point-of-sales system using **Google Translate API**, Python, **C#**.
- Automated end-to-end testing using Cypress and OpenTest to scale and deploy **C#/.NET** plugins for the monolith.

Valero Energy Corporation

Three Rivers, Texas

Electrical Systems Engineering Intern

May 2022 – August 2022

- Designed alternating current ripple choke filter circuit using **AutoCAD** to prevent further battery deterioration.
- Programmed trip points for **SEL relays** using nested boolean methods to represent different motor usage states.
- Integrated motor under-current relay to prevent acid overflow in basin, saving \$60,000 in yearly motor damages.

TAMUhack

College Station, Texas

Hackathon Director & Software Developer

November 2021 – February 2024

- Launched and maintained **4 interactive webpages** using HTML/TailwindCSS and Vue.js deployed via Heroku.
- Deployed digital event passes via Apple's PassKit API and a music queue web app using **Spotify API & Next.js**.
- Directed one of Texas's largest **24-hour hackathon events** for 850+ students from 35+ universities internationally.

PROJECTS

Agricultural Irrigation Run Control Monitoring

Senior Design Project - 1st in Department

- Built a responsive agricultural equipment monitoring dashboard and analytics page via **Next.js** and TailwindCSS.
- Visualized real-time power and sensor data transmitted from a **LoRa mesh network** and stored using MongoDB.
- Developed LoRa mesh network connectivity sending packets of data using **ESP32** and PlatformIO RF libraries.

AeroCheck

TAMUhack 2021 – Honorable Mention

- Developed an in-flight live mask detection program to assist airline companies with COVID-19 regulations.
- Trained **1,000+ images** to create a machine learning mask recognition model via TensorFlow and Keras.
- Built the front-end application via **Flutter** connected to AWS Amplify and linked the backend using REST API.

ACHIEVEMENTS AND TECHNOLOGIES

Achievements: Varsity Tennis (Lettered 4 Years, Team Captain), Capital One Coders (Best App & Design)

Technologies: Proficient: Next.js, C# Python, Git **Experienced:** Go, PostgreSQL, Verilog, Arduino

Hobbies: Tennis, Concerts, Gaming, Hackathons, Basketball, Cars, Electronics/Automation, and Golf