

Jaden Banze

jadenbanze@gmail.com · <https://jadenbanze.com> · <https://linkedin.com/in/jadenbanze> · Chicago, Illinois

Education

Texas A&M University

B.S. Electrical Engineering, Minor in Computer Science

College Station, Texas

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

Fullstack Software Development Engineer

Chicago, Illinois

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

Software Development Engineering Intern

Chicago, Illinois

June 2023 – August 2023

- Designed and developed accessibility features for the 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

Electrical Systems Engineering Intern

Three Rivers, Texas

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

Hackathon Director & Software Developer

College Station, Texas

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' largest 24-hour hackathon event for 850+ students from 35+ universities internationally

Projects

Agricultural Irrigation Run Control Monitoring – Senior Capstone Project, Awarded '1st Prize' by Department Board

- 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 - Awarded 'Honorable Mention' for TAMUhack 2021 hackathon (American Airlines Challenge)

- 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/Interests

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

Technologies: (Proficient): Next.js, C#, C++, Python, Git (Experienced): Go, PostgreSQL, Verilog, Docker, Arduino

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