

Matthew Janczak,

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Education

Texas A&M University at College Station
GPA: 3.737 Magna Cum Laude

Major: Computer Science
Minor: Mathematics

Experience

WORK

SLB (Formerly Schlumberger) Digital Technology Intern (May 2023 - August 2023)

- Created an inspection visualization tool for Boston Dynamics "Spot" Dog or ANYmal X; allowed remote monitoring in toxic or high-heat conditions, significantly reducing human risk and improving operational efficiency.
- Developed features using **Unity (C#)** and integrated a **Python-Based** API to sync data between the digital twin and Cognite.

PROJECTS

Senior Capstone Project - Bitwise

- Created a cross-platform mobile application for Apple and Android devices that enables code execution and features a block coding interface for easy programming.
- Utilized **React Native** for the frontend and **Node.JS** with **ExpressJS** for the backend RESTful API services. Implemented **MySQL** for the database and leveraged Expo for testing.

Member Tracking System

- Developed a website for a president and others members to keep track of contributions to the club and to verify their authenticity through images.
- The application was built using **Ruby on Rails**, with **PostgreSQL** for data storage, secured with **OAuth** and **Brakeman**, tested using **Rspec**, and deployed to **Heroku** for customer use.

Point of Sales and Inventory

- The initial phase of this project involved designing GUI's for a server and manager based on a real restaurant. This included creating a database through **AWS** using **postgreSQL** and developing the GUIs with **JFrame**.
- A second phase involved converging the existing framework into a web-based application. We used **NodeJS** and **React** for frontend development and **Prisma** for database access and backend development.

Relevant Coursework

Software Engineering:	Work with real customer to create a product
Programming Studio:	Process of Software Development (Agile and Waterfall)
Programming Languages:	Java and Scheme (OOP vs. Functional Programming)
Data Structures & Algorithms:	Stacks, Queues, Sorting/Selection, and Hashing
Design Analysis of Algorithms:	Fundamental understanding of algorithms

Skills

Languages: Python, C++, Java, C#, Ruby, SQL, JS, CSS and HTML

Other Coding Knowledge: Visual Studio Code, Ubuntu, Eclipse, RStudio, GitHub/GitBash, React/React Native, and Unity