

Nicholas Knighton

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EDUCATION

Texas A&M University

Bachelor of Science in Computer Science

Cumulative GPA: 3.4/4.0

College Station, TX

Aug 2020 - Dec 2023

EXPERIENCE

Randolph Brooks Federal Credit Union

Web Developer

San Antonio, TX

Dec 2024 - Present

- Leading development of an internal AI chatbot using the ChatGPT API for employee support
- Writing unit and end-to-end tests with Jest and Cypress to ensure software quality and reliability
- Collaborating with QA and backend teams to integrate the chatbot with internal systems

Randolph Brooks Federal Credit Union

Web Development Intern

San Antonio, TX

Jun 2023 - Aug 2023

- Migrated a JQuery webpage to Angular helping customers apply for loans efficiently and conveniently
- Developed a single page, mobile friendly Angular application based on design mockups
- Participated in community volunteering events (Haven for Hope homeless shelter)

PROJECTS

Walmart - Containerized Web Apps (Senior Capstone Design Project)

- Used stable diffusion to create datasets based on text input to train computer vision models
- Leveraged Amazon S3 and supabase to store and query generated images while Amazon EC2 instances were used to run the stable diffusion model and generate images, docker was used to deploy the software
- Worked in a team of 5 using the agile method and used github to collaborate on writing code and test cases

FPV Drone Build and Configuration

- Assembled and configured a 5-inch FPV drone using Betaflight firmware and BLHeli ESCs
- Calibrated IMU sensors and tuned flight parameters using Betaflight Configurator
- Gained IMU sensors and tuned flight parameters using Betaflight Configuration

Portfolio Website - nickmknighton.com

- Designed and implemented a portfolio website from scratch using Next.js framework that displays personal projects, photography, and displays a map of the 33 countries I have visited
- Utilized Amazon S3 and Supabase database to store and display 10gb of photography
- Publicly hosted using Vercel which hosts a test and public version of the website

Skills

Languages: Ruby, Python, SQL, JavaScript, C++

Web and UI: Angular, React, Next.js, HTML/CSS

Infrastructure and Tools: Git, AWS (S3, EC2), Supabase, Bash, Linux, Vercel

Testing and Automation: Jest, Cypress, CI/CD concepts

Other: REST APIs, Agile methodology, AI/LLM integration