Ibraheem **Cazalas**

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EXPERIENCE

Florida Southern College

The Cube Life | VueJS 3, Firebase, Firestore, Blender, Unreal Engine 5, Bootstrap
Full Stack Developer | August 2023 – Jan 2024
- Designed and engineered a modern web application to represent the Florida Southern College Computer Science Department
- Leveraged UE5's physics and 3D-rendering engine to design a virtual tour of the CS department, increasing user experience
- Implemented a fully functioning degree audit system with a focus on CS concentrations, reducing student advising appointment lengths considerably
- https://github.com/ICAZ117/fsccs

Mocs Family Care Center | Unity, C#, SQLite, Firebase, Firestore, Blender
Software Developer | May 2022 – Jan 2023
- Utilized relatively inexpensive hardware ($400 virtual reality headsets) to significantly increase access to advanced learning resources for nursing students, resulting in improved content retention and reduced instructor grading loads
- Employed Unity's physics and 3D-rendering engine to design a pediatric medical assessment simulation in virtual reality to help nursing students prepare for OSCEs
- https://github.com/ICAZ117/MocsClinic

MocsIDE | VueJS 3, Laravel, SQL, Docker, Java, Python, JUnit 5, JS, Bootstrap
Full Stack Developer | Jan 2021 – March 2022
- Integrated WebSockets into a Vue application to create an interactive pseudo-terminal, thus replicating the live terminal present in modern IDEs
- Constructed a dynamic responsive frontend application using Vue 3 with Bootstrap 4 to improve and optimize UX on the site
- Developed a fully functional online IDE and auto-grader powered by custom socketed Docker containers, enabling instructors to assign large quantities of short practice programs while eliminating immense grading loads
- https://github.com/ICAZ117/mocside

SoundCord

VoiceCord | VueJS 3, Supabase, JS, Discord API, Discord.JS, Apache
Software & Full Stack Development | Jan 2023 – May 2023
- Engineered a responsive Discord bot using Discord.JS to interact with the Discord API to facilitate real-time delivery of an audio stream
- Built a website using VueJS, hosted on a VPS, providing a user-friendly interface for account and subscription management
- Configured a VPS with Apache to host both the bot and the frontend website, and seamlessly integrated it with Supabase cloud functions and Stripe payments
- Assembled a secure payment system using Stripe's webhooks and a serverless Supabase cloud function, optimizing user payment experience
- https://github.com/Voice-Cord

PROJECTS

Blend | Flutter, Dart, Android, Gradle, VueJS, Google Cloud, Firebase
Software Development | Jan 2024 – May 2024
- Created an Android application to streamline content posting to multiple social media platforms simultaneously, leading to enhanced productivity and unified brand messaging across channels
- Developed content-posting pipeline for YouTube using the YouTube Data API and Google's OAuth 2.0 API, enabling video sharing from our app to user accounts
- https://github.com/ICAZ117/Blend

EDUCATION

Florida Southern College
B.S., Computer Science
Lakeland, FL

Polk State College
A.A., General Education
Lakeland, FL

PUBLICATIONS

SIGCSE | Mar 2022
MOCSIDE: An Open-source and Scalable Online IDE and Auto-Grader for Computer Science Education
https://doi.org/10.1145/3478432.3499125

CCSC | Oct 2021
MOCSIDE: an open-source and scalable online IDE and auto-grader for introductory programming courses
https://dl.acm.org/doi/abs/10.5555/3512733.3512734

FURC | Feb 2023
Pediatric OSCEs Within the Metaverse: A Virtual Reality Solution to the Inefficiencies in Modern Nursing Education

COURSEWORK

Intro to Computer Science
Object-Oriented Programming
Data Structures
Analysis of Algorithms
Computer Organization & Architecture
Operating Systems & Concurrency
Software Engineering & App Development
Web & Cloud Computing
Principles of Networking
Penetration Testing
Competitive Programming
Advanced Programming & Problem-Solving Techniques

INTERESTS

Computers
Simulation Racing
Video Games
Competitive Programming
Travelling
Community Service
Einsteinian Relativity & Quantum Physics

Personal Portfolio | VueJS 3, Firebase, Firestore, Bootstrap
Full Stack Development | Apr 2022 – Present
- Designed and developed a personal web portfolio with Vue 3 and Bootstrap 5, showcasing projects and skills
- Engineered a custom SkewBox component in Vue for flexible, diagonally divided sections using slot data.
- Integrated Firebase for secure backend functionality, enhancing the scalability and efficiency of the site.
- https://github.com/ICAZ117/icaz117-profile

Discord Bot | Java, Maven, JDA, SQLite, AWS
Software Development | Jan 2021 – Aug 2022
- Engineered a responsive Discord Bot using Java with Maven to interact with the Discord API to facilitate autonomous registration/verification of members in a community guild
- Integrated an AWS Cloud service to obtain the public IP address of a local network, thereby enabling remote SSH connections to the host server
- Designed a SQLite database to store relevant user information and profiles to optimize user profile management
- https://github.com/ICAZ117/Sheikh-Pepe

SKILLS

BACK END DEVELOPMENT | Laravel • PHP • SQL • SQLite • Firebase • Supabase • Apache • Ubuntu • JSON • Fail2Ban
FRONT END DEVELOPMENT | VueJS • Options API • Composition API • React • JavaScript • Bootstrap • HTML • CSS
SOFTWARE DEVELOPMENT | Java • Gradle • Python • C • C# • C++ • Flutter • Dart
MISCELLANEOUS | Docker • GitHub • Bash • Stripe • JIRA • Notion • WSL • Android App Development • Concurrency • Google Cloud
SOFT SKILLS | Team player • Bias for action • Deliver results

COMMUNITY SERVICE

Volunteered for over 500 hours at Lakeland Regional Health

Packed over 90,000 lbs of food for the homeless at Feeding Tampa Bay resulting in the distribution of over 80,000 meals

Organized food drives collecting over 5700 lbs of food for the homeless

Removed over 20,000 lbs of trash and harmful weeds from several local state parks

Planted over 100 trees at Hillsborough River State Park and Edward Medard Conservation Park