

Ibraheem Cazalas

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EXPERIENCE

Lakeland Regional Health

Research & Sponsored Studies | React, VueJS, Firebase, R, Data Analytics

Junior Data Scientist | Jan 2024 – Present

- Designed and developed a cloud-based codebook based on 40+ clinical DRRs, increasing research approval times by 23%
- Constructed a dynamic dashboard using React and Firebase, enabling research managers to effortlessly maintain and update the codebook
- Deployed an artificial intelligence to analyze medical records & clinical notes for automated data extraction, resulting in the development of numerous research studies
- Engineered a wide assortment of microservices and synchronization tools, boosting average task-completion rates by 17% over a 6-month period
- Extracted and cleaned a collective 6 million data entries from a variety of national and international data banks, allowing for extended clinical research and development

Florida Southern College

The Cube Life | VueJS, Firebase, Firestore, Blender, Unreal 5, Bootstrap

Lead Full Stack Developer | Aug 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, creating a memorable 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/fscs>

Mocs Family Care Center | Unity, C#, SQLite, Firebase, Firestore, Blender

Lead 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, Laravel, SQL, Docker, Java, Python, JUnit 5, JS, Bootstrap

Full Stack Developer | Jan 2021 – Mar 2022

- 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
- Integrated WebSockets into a Vue application to create an interactive pseudo-terminal, thus replicating the live terminal present in modern IDEs

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

AWARDS

ACM ICPC Gold Medalist | Nov 2022

1st place in Southeast Regionals

ACM ICPC Silver Medalist | Nov 2021

2nd place in Southeast Regionals

FSC CPT Captain | 2021 - 2022

Assigned team captain of the Florida Southern College Competitive Programming Team

COURSEWORK

Object-Oriented Programming

Data Structures

Analysis of Algorithms

Computer Organization & Architecture

Operating Systems & Concurrency

Software Engineering & App Development

Web & Cloud Computing

Networking & Penetration Testing

Advanced Programming & Problem-Solving Techniques

- Constructed a dynamic responsive frontend application using Vue 3 with Bootstrap 4 to improve and optimize UX on the site
- <https://github.com/ICAZ117/mocside>

SoundCord

VoiceCord | VueJS, Supabase, JS, Discord API, Discord.JS, Apache

Lead Software Developer | Jan 2023 – May 2023

- Launched a tech startup that amassed over 10,000 users worldwide
- Leveraged Discord.JS to develop a bot enabling real-time voice messaging via custom audio streams from the Discord API
- Built a website using VueJS and Bootstrap, providing a user-friendly interface for account and subscription management
- Configured a VPS running Ubuntu with Apache to host both the bot and the frontend website, and seamlessly integrated it with Supabase cloud functions to support the Stripe payment pipeline
- 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, Android, Gradle, VueJS, Google Cloud

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>

Personal Portfolio | VueJS, Firebase, Firestore, Bootstrap

Full Stack Development | Apr 2022 – Present

- Designed and developed a personal web portfolio powered by VueJS, 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/icaaz117-profile>

SKILLS

BACK END DEVELOPMENT | Laravel • NodeJS • Spring Boot • PHP • SQL • SQLite • Firebase • Supabase

FRONT END DEVELOPMENT | VueJS • Options API • Composition API • React • JavaScript • Bootstrap • HTML • CSS

SOFTWARE DEVELOPMENT | Java • Gradle • Maven • Python • C • C# • C++ • Flutter • Dart • R

MISCELLANEOUS | Docker • AWS • GitHub • Bash • Stripe • JIRA • Notion • WSL • Android Development • Concurrency • Google Cloud • Apache • Ubuntu • JSON

SOFT SKILLS | Team player • Bias for action • Deliver results

INTERESTS

Computers

Simulation Racing

Competitive Programming

Community Service

Einsteinian Relativity & Quantum Physics

COMMUNITY SERVICE

Packed over 150,000 lbs of food for the homeless at Feeding Tampa Bay resulting in the distribution of over 130,000 meals

Organized food drives collecting over 12,000 lbs of food for the homeless

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

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

Home Automation Service | Java, Maven, JDA, IFTTT, RPi

Software Development | Jul 2023 – Present

- Designed a Discord bot to connect to the Google Assistant API via IFTTT, allowing me to remotely control the power to my home computer
- Deployed the service to a local Debian-based server, providing a stable 24/7 runtime environment

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>