Hamza Nasiru-Carew

Junior Fullstack Developer - www.hamza.app

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Education

2017–2020 **Computer Science BSc Hons**, *University of Greenwich*.

Knowledge Area

Frontend HTML, CSS, Javascript, Vue.js

Backend GoLang, Python (Flask), Express.js

Database PostgresSQL, MongoDB

Technologies Docker, Git, TravisCI, Heroku, Postman, Micro-services, REST APIs, Agile, Trello

My Projects - github.com/6ixbit

2020 **xStat**, *Docker, Micro-services, TravisCI, MongoDB, Flask, Vue.js, Pandas*.

A data visualization platform to view and compare the statistics of football players from Europe's Top 5 leagues.
- Services containerized with Docker-compose
- Micro-services built with synchronous architecture
- Continuous integration for tests implemented with TravisCI
- Football data pulled from Third-party API on RapidAPI
- Endpoint responses are formatted with Pandas data analysis library
- Football data is visualized on front end service with radar and scatter charts
- Vue.js router, state management and AJAX requests implemented

2020 **FoxDos**, *GoLang, TCP, concurrency, worker pool, channels*.

A denial of service CLI tool that uses threads (go routines) from a worker pool to open a plethora of TCP connections to a given host/IP address, built for educational purposes.
- Developed using GoLang for speed and built-in concurrency
- Uses multiple channels to communicate and track state of workers threads
- Worker pool integration means go routines have a quicker start time and are constantly reused until jobs are complete
- HTTP and HTTPs targets supported

2020 **University Social App**, *Express.js*, MYSQL, Mocha, JSON .

A university intranet clone where I collaborated in an agile team of 7.
- Wrote various tests for Express.js back end using Mocha
- Collaborated in an Agile team to complete tasks on a weekly sprint basis
- Developed SQL queries using JOINS and Sub queries to deliver data for endpoints
- Implemented JWT authentication for back end during pair programming
- Collaborated with team to develop user management for admin users
- Developed endpoints and SQL queries to return formatted data on user data; most active users, departments with most posts, most liked posts etc.

2020   **Socket Chat application**, *Express.js, Vue.js, Socket.io, Docker*.
- Real time socket application
- Client and server containerized with Docker-compose
- Vue router for pages - Styled with Vuesax framework
- Users can view connected users

2019   **Employee Holiday Booking System**, *C#, SOAP, SQL Server, Web services*.

A holiday booking system that allows for employees to submit holiday requests that can be accepted or declined by an admin using a desktop admin application.
- Two employee applications (Web and Desktop) that communicate through a referenced web service.
- Admin application that is used to accept and reject holiday requests
- Admin can view incoming holidays based on a priority score system with constraints such as annual peak times
- A 3 tier system with two desktop applications which communicate through a SOAP web service

2019   **Personal website**, *Python, Flask, Postgres, RQ, Mailgun*.
- Queries GitHub's API for repositories using Heroku scheduler
- Repository data is stored in Postgres DB
- Front end built with Jinja2 template system and third party CSS framework
- Contact form uses Mailgun to email admin
- Deployed to Heroku

Experience

Omni Projects   This was a summer internship during my penultimate year at university where I got the chance to work in a small back-end team to develop internal tools and external backend services for my team. I worked mostly in Python and leveraged tools like Jira, Git, and PostgreSQL during my development process.