

Bola Ghaly

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OBJECTIVE

An intellectually curious and highly motivated software engineering graduate with a passion for learning new technologies seeking a challenging and rewarding opportunity to utilize and further develop my skills and abilities.

EDUCATION

The City University of New York, College of Staten Island, NY

August 2019 – May 2023

Bachelor's degree in Computer Science

Honors: cum laude (cumulative GPA: 3.71) and Dean's List (2020 – 2021)

TECHNICAL SKILLS

Programming: HTML, CSS, JavaScript, TypeScript, React, Redux, Next.js, Node.js, Express.js, SASS/SCSS, Material UI, Tailwind CSS, Bootstrap, Java, C++, Python, Flask, C#, .NET, SQL, RESTful API, GraphQL.

Technologies: VS Code, Eclipse, Git, GitHub, GitLab, CI/CD, AWS, Heroku, Supabase, Vercel, Jira, Figma, Postman.

PROFESSIONAL EXPERIENCE

HData

Birmingham, Alabama

Full Stack Developer Intern

June 2022 – August 2022

Interned at a RegTech startup company that creates and scales platforms to deliver automated compliance and enable instant business intelligence to the U.S.-regulated energy industry.

- Practiced the complete software development life cycle (SDLC) from planning and defining requirements for project tasks by using Jira and attending design meetings, to code developing, testing, and deploying.
- Developed and maintained RESTful and GraphQL APIs by implementing and updating various endpoints in C# (.NET) and JavaScript to retrieve essential data, such as user accounts and FERC filings, from a MariaDB database.
- Conducted unit testing on front-end Material UI components using Jest to verify that the user interface was developed and functioned according to expectations, delivering a reliable experience for end-users.
- Used NUnit and Moq on back-end routes to simulate real objects which allowed for testing API calls to the database using in-memory data.

TECHNICAL PROJECTS

FinFiesta – Personal Project

Frontend Software Engineer

Developed and deployed a responsive and visually appealing admin dashboard UI for the fictional financial company, FinFiesta, utilizing Figma, Next.js, Sass, Redux, and Recharts.

- Used Sass to write modular and maintainable stylesheets, resulting in clean and scalable code.
- Leveraged Redux for centralized and predictable state management and employed redux-persist to persist specific states for a consistent user experience across page refreshes.
- Incorporated interactive charts using the recharts library to visualize data and provide valuable insights.
- Implemented a theme mode feature allowing users to switch between light and dark themes, enhancing visual accessibility and user preferences.
- Deployed the admin dashboard on Vercel, ensuring high performance for hosting Next.js applications.

Tech Talent Pipeline (Full Stack Development Bootcamp) – Capstone Project

Software Development Student

Applied React.js, Node.js, Express.js, and PostgreSQL to create an online loot box simulator where a user can open different kinds of card packs to get a chance to own their favorite NBA player trading cards.

- Utilized Node.js, Express.js, and PostgreSQL to develop custom routes and handle HTTP messages, facilitating the exchange of player information, user login details, and user card collections between the client and server.
- Enabled user registration and login with email and password validation using regular expressions (regex).
- Encrypted user passwords using bcrypt.js prior to storing them in a PostgreSQL database table, ensuring robust data security.