Bikram Phurumbo

Full Stack Software Developer- (Node.js | React | TypeScript | Python | Django | PostgreSQL)

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LinkedIn | **Github** | **Website**

I am a full stack software engineer, coding on **JavaScript, TypeScript, Python, SQL**. Frameworks I've worked with: **Node.js, React, Flask, Django**. Love working with **REST APIs** and **PostgreSQL** databases on the backend. interested in crafting high-quality, **clean code** and continuing to expand my interest in algorithms, data structures, object-oriented code, and **scalable design**. I have a particular interest in translating **UI designs** into reality, **AI generative tools** to solve problems, clean, **refactored code, testing** and **TDD**, and would love to learn more about **Cloud hosting**.

Experience

Freelance, Full Stack Software Engineer -**(Node.js | React | TypeScript | Python | Django | PostgreSQL)**   04/2024 - Present
- I specialize in building dynamic, scalable web applications using a combination of modern technologies: **Node.js** for backend services, **React** with **TypeScript** for robust and interactive frontends, and **Django** with **PostgreSQL** for secure and efficient data management. This skill set allows me to craft end-to-end web applications, focusing on clean code, performance optimization, and scalable architecture to deliver high-quality, full-stack solutions across various projects.
- Overcoming challenges involves using **Context API** for efficient state management, and **Axios** with proper error handling for smooth API communication. Backend scaling and database consistency are addressed with **caching, query optimization**, and **transactional queries** in PostgreSQL to maintain performance and data integrity.
- The challenges include managing complex **state in React**, ensuring smooth **API** communication between frontend and backend, scaling **Node.js** or **Django** backends for high traffic, and maintaining data consistency in **PostgreSQL** during concurrent processes. Overcoming these requires robust solutions like efficient state management, error handling, backend optimization, and transactional database queries.
- Some of the projects I build for clients by utilizing full stack development - Todo-Task-App(**React with Django**), Jokes-Apps(**Node.js**), Bridetool, Cleaning-Services (**JavaScript with Django**), Game-Hub(**React with TypeScript**)

Coding Temple, Entry-Level Software Engineer-(**Node.js | React|TypeScript | Python | Django | PostgreSQL**) 01/ 2024 - 07/2024
- Mastered 12 independent projects coding on **JavaScript, TypeScript,** and **Python**. Frameworks I've worked with: **Flask, Django, React, Node.js**. I've worked with **REST APIs** and **PostgreSQL** databases on the backend.
- **Refactored** for code quality during algorithm whiteboarding, pair programming and Code Reviews resulting in **debugging techniques** and consideration of **scalability and time efficiency**.
- Leveraged **Git** and version control on **GitHub** to facilitate the software development life cycle
- Overcame challenges by implementing effective state management, seamless **REST API integration**, optimized **PostgreSQL** schemas, efficient handling of **asynchronous** operations, and **responsive design** solutions with **Bootstrap**.

Admin/Project Manager: Retail Store, Cuyahoga falls OH   01/2014 – Present
- Oversee daily store operations, staff management, and customer service to ensure a welcoming environment.
- Manage inventory, implement sales strategies, and optimize finances for profitability. Plan marketing campaigns, maintain safety standards, and engage with the community for brand awareness and growth.

Projects

Pokemon-Game: (Github | View-Site)
- Developed a Pokémon Battle web application by using **React:** for building the user interface and managing state. **JavaScript:** for scripting and interaction within the application. **CSS**: For styling the components. **HTML**: For structuring the web pages. **Node.js**: For the server-side runtime environment. **Express.js**: For building the **REST API** and handling server-side logic. **Axios**: For making **HTTP** requests from the frontend to the backend. **SQLite:** For storing user data, Pokémon data, and battle records.
- Where users can fetch battle data, select Pokémon, and engage in battles, viewing stats like **HP**, **Attack**, and **Defense**. The app includes **secure login** and authentication using **JWT**.
- The project involves **React state** management with **useState** and **useEffect**, **API** integration using **Axios, JWT** authentication, **error handling**, and managing **asynchronous** operations with **async/await.**
- We overcame challenges in complex state management, **API** integration, secure **JWT** authentication, **asynchronous** operations, and robust error handling in the app.

- The app offers an engaging user experience, data-driven insights, scalability, secure JWT authentication, and a unique feature set to attract and retain Pokémon enthusiasts.

E-commerce-Site: (Github | View-Site)
- Developed a responsive e-commerce website with **React**, **HTML, CSS**, third-party **APIs**, and Google **Firebase** for data management.Utilized full-stack technologies **(Typescript, SQL)** and **GitHub** for version control, enhancing functionality with **RESTful APIs**.
- Build a dynamic and scalable ecommerce platform, manage complex state with **React and TypeScript**, implement real-time data and **secure authentication** using Firebase, integrate third-party **APIs**, and optimize data handling with **SQL**.
- Learned to create **responsive UIs** with **React** and **TypeScript**, manage real-time data and **authentication** with Firebase, integrate third-party **APIs**, and optimize **SQL** database performance and secure transactions.
- Managed complex **state in React**, secured data with **Firebase**, integrated multiple **APIs**, and optimized **SQL** database performance.
- Enhanced user engagement, scalability with real-time updates, and operational efficiency through seamless integrations and data insights.

BookLand E-commerce Store Project: (Github | View-Site)
- Developed a BookLand E-commerce Store by using **HTML**: Structured the content of our web pages, ensuring a clear and organized layout. **CSS**:Styled the website, providing an appealing and **responsive** design. **Bootstrap** was used to ensure consistency across different devices. **JavaScript**: Added interactivity and **dynamic behavior** to the site, enhancing user experience. **jQuery** helped simplify **DOM** manipulation and event handling. **Django** and **Python**: A high-level Python web framework that provided a robust foundation for our backend. Django's built-in features like **ORM**, **authentication**, and form handling were instrumental in rapid development. Database: **PostgreSQL**
- Users can browse **detailed book information**, securely **register and login**, manage a **shopping cart** with seamless **checkout, track orders, and leave feedback and reviews**.
- Gained proficiency in **Django**'s architecture and **ORM**, integrated frontend technologies with Django, optimized **database** schemas and **queries**, and designed user-friendly interfaces for an enhanced user experience.
- We addressed integration issues between frontend and Django backend, designed efficient database schemas, developed a recommendation algorithm, ensured secure **user authentication**, and optimized performance under varying loads.
- The platform enhances user experience, boosts engagement and sales with a recommendation system, provides valuable data insights, and positions the business competitively in the online book retail market.

Education
Coding Temple, **Full-Stack Software Engineering**
Languages: JavaScript, TypeScript, Python, SQL
Frameworks & Database: Node.js, React, Flask, Django, Docker, NoSQL, PostgreSQL, Jupyter Notebook
Tools/DevOps: Git/GitHub, VScode, Intellij
Coding Temple - Certifications of Completion

Google, Certificate - Data Analytics

Fortis College (National Institute of Technology), Cuyahoga Falls, OH, USA, January 2018 - December 2020
Degree Associate -Computer Information Technology