PATRICK OWUSU BOFAH

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EDUCATION

Grambling State University – Grambling, Louisiana, USA   May 2028
Major(s): Computer Science & Mathematics
Relevant Coursework: Computer Science, Front End Development, Cybersecurity, Calculus, Data Analytics, Discrete Structures, Differential Equations

EXPERIENCE

Bismuth Technologies– Kumasi, Ghana   May 2022 - April 2024
Software Engineer
- Developed QuickTrack, a scalable project management app built with Node.js and React.js to streamline task tracking and enhance team collaboration.
- Optimized RESTful APIs, reducing load times and boosting response speed by efficient endpoint design and caching.
- Implemented unit tests and conducted code reviews, ensuring high code quality and maintainability.

OASIS Infobyte– Remote   June 2024 - July 2024
Data Science Intern
- Worked on a team of 10+ to design and implement data science solutions for predictive analytics.
- Utilized Pandas, Numpy, and Scikit-Learn for data manipulation, computations, and model evaluation
- Wrote design documentation for projects. Partook in weekly code reviews and bug fixes.

PROJECTS

Cartify | Django, Vue.js, SQL   **Project Link**
- A full-stack clothing e-commerce app, providing a smooth shopping experience from browsing to checkout.
- Integrated Stripe for secure payments, and implemented a dynamic shopping cart with realtime updates for enhanced user convenience. Improved user experience with detailed listings and secure authentication.
- Built with Django for the backend, Vue.js for the frontend, SQL for the database, and Tailwind CSS for styling

BuzzFussion | HTML, CSS, JavaScript, Django, SQL   **Project Link**
- A social media platform for sharing photos, interacting with posts, and following/unfollowing other users
- Developed a notification system, real-time post updates, and search functionality, significantly enhancing user engagement.
- Built with HTML5, CSS, JavaScript, Django, and SQL.

Digital Clock App | HTML, CSS, JavaScript   **Project Link**
- A digital clock app with real-time updates, customizable time zones, and cross-device optimization.
- Designed alarm management with add, edit, delete, and snooze options, sound alerts, and integrated a stopwatch with start, stop, and lap functions, improving user task management.
- Built mainly with HTML5, CSS, and Javascript.

SlitherQuest | HTML, CSS, JavaScript, Firebase   **Project Link**
- 2D Snake Game with sound effects and pause/resume options. Support arrow and ASDW keys.

Data science/Machine Learning | Python, Google Colab.   **Project Link**
- Developed machine learning models for Iris Flower Classification, Unemployment Analysis, Email Spam Detection, Car Price and Sales Prediction.

SKILLS

- **Languages**: Python, Java, Javascript, C/ C++, PHP, R, Swift, TypeScript
- **Software & Tools**: FastAPI, Django, Flask, Node.js, MongoDB, PostgreSQL, SQLite, React, HTML, CSS, Figma, Express, Firebase, Vue, Cloudinary, Git, Bootstrap

EXTRACURRICULAR ACTIVITIES

National Society of Black Engineers, Member|Association for Computing Machinery, Member|Ghana Olympiad Academy, Mentor & Coach|TechElevate, Member|Ckodon Foundation, Mentor|