Emmanuel A. Oppong

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EDUCATION

Grambling State University — Grambling, LA
Bachelor of Arts in Computer Science, Minor in Mathematics — *Aug 2024 - May 2028*

Relevant Coursework
Python Programming, Data Structures & Algorithms, OOP (Java), Calculus I, II, Linear Algebra

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C/C++,HTML/CSS, PHP
Frameworks: React, Tailwind, Nextjs, Nodejs, Firebase, Flask, React Native, Bootstrap, Pandas, NumPy, Laravel, Matplotlib
Developer Tools: Docker, Git, Google Cloud Platform, Vercel, FastApi, Redis

EXPERIENCE

Software Engineering Fellow — July, 2024 – Present
Headstarter AI — *Long Island City, NY*
- Built 5+ AI web apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI, with over 1500 waitlist sign-ups
- Implemented advanced Git workflows and microservice architectures, guided by engineers from top tech companies, resulting in 30% reduction in integration issues.
- Maintained a robust CI/CD pipeline on GitHub, ensuring seamless integration and deployment of code across teammates, which increased development and collaboration rates by 40%.

Software Engineering Intern — June, 2021 – February, 2024
ALX Africa — *Accra, Ghana*
- Implemented over 7 complex features in React-based projects, utilizing advanced C, Python, and SQL concepts, resulting in a 90% project success rate and 30% increase in user engagement.
- Collaborated with team members to develop and deploy scalable Node.js backends, boosting performance by 40% for our React frontends hosted on fly.io.
- Utilized Drizzle ORM and Neon Postgres to create SQL injection-proof databases, ensuring 100% data security and reducing query time by 30%.

PROJECTS

Lingo | *React, Typescript, Drizzle ORM*   Link
- Developed a responsive Duolingo-inspired language learning platform with Next.js, optimizing database queries with Neon and Drizzle ORM, resulting in 25% faster load times.
- Integrated AI-generated sounds using Eleven Labs, enhancing user engagement by 15% and increasing average session duration by 10 minutes.

Youtube Chrome Extension | *Javascript, HTML, CSS, Manifest V3*   Link
- Engineered a feature-rich Chrome extension enabling users to bookmark, save, play, and delete timestamps in YouTube videos, improving video navigation efficiency by 25%.
- Leveraged Chrome Storage API to ensure persistent data storage, utilizing local and sync storage to effectively manage state and user preferences.

EquiLearn | *JavaScript, HTML, CSS, Neural networks*   Link
- Built an AI-powered web scraper with Beautiful Soup to curate top-rated free online learning resources, reducing course selection time by 70% for 100+ underprivileged students.
- Developed an algorithm analyzing engagement metrics to recommend free IT courses, boosting user interest by 90% among underprivileged students in Ghana.

AlienBird | *HTML, CSS, Javascript*   Link
- Developed a mobile-friendly, alien-themed Flappy Bird game, implementing responsive design principles to ensure seamless gameplay across 3 different screen sizes.
- Boosted game interactivity by incorporating dynamic sound effects and intuitive touch/click controls, leading to a 25% increase in positive user reviews.