Ayaan Siddiqui

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github.com/22ayaan | ayaansiddiqui.vercel.app

Education

B.S. Computer Science (3.6 / 4.0 GPA)   Expected Graduation – April 2025
University of Pittsburgh   Pittsburgh, United States
Minor in Business
Relevant courses: Algorithms and Data Structures, Operating Systems, Software Quality Assurance, Web Development, Data Science, Cloud Computing, Software Engineering.

Skills

Programming Languages - TypeScript, JavaScript, Java, Python, SQL, C, Swift, Rust.
Technologies - React.js, Next.js, Node.js, MongoDB, PostgreSQL, TailwindCSS, JWT, bCrypt hashing, Clerk, Stripe, Three.js, Cloudinary, TensorFlow, SQLAlchemy, SwiftUI, sanity.io CMS, Flask.

Professional Experience

Tata Consultancy Services   May 2024 – July 2024 | Kolkata, India
Fullstack Developer Intern
- Integrated cameras and fingerprint scanners into a local node server for the Passport Application System of the Government of India while following **Agile** development methodologies.
- Integrated external devices with the local agent **node server** using their respective SDKs.
- Integrated APIs in the front-end using **Circuit Breakers** in **React.**
- Designed multiple React components for the Passport Seva Kendra Portal with over **400** passports printed in **2** cities.
- Implemented authentication for the Node.js server using **JSON Web Token (JWT)** and secured login credentials by encrypting them with the **SHA-512** hashing algorithm.

IndicSoft Technologies Pvt. Ltd.   May 2023 – August 2023 | Noida, India
Full-stack Developer Intern
- Developed multiple components in **React** for the Swachh Bharat Mission survey used by billions of citizens.
- Secured authentication using the state-of-the-art tool **Avatar**, debuted in front of over a million users.
- Contributed to the **system design** and screen layouts of a Carbon Trading project.

ForcePower Infotech   June 2022 – August 2022 | Kolkata, India
SWE Intern
- Trained an image classification **machine learning model** to classify flower species and various jewelry artifacts using **TensorFlow**.
- Developed a UI for the image classification model and hosted it on **Streamlit**.
- Contributed to the design and implementation of an **automated grocery billing system** using image classification models to replace current barcode-reliant billing methods.

Projects

Horizon Vault
- Developed a full-stack Finance Management Dashboard integrating multiple bank accounts for real-time transaction tracking and secure user-to-user fund transfers.
- Implemented secure authentication and database management using **Appwrite**, ensuring user privacy.
- Designed a responsive and dynamic interface with **Next.js 14**, leveraging lightning-fast **server-side rendering** for enhanced performance and **SEO optimization**.
- Integrated bank data via **Plaid's** secure APIs and enabled real-time fund transfers using **DWOLLA** for accurate financial transactions.

PixWiz
- Developed an **AI**-powered **SaaS** platform for advanced image processing - image restoration, recoloring, object removal, and more, utilizing **Next.js, MongoDB** and **Cloudinary**.
- Implemented secure authentication, and payment systems with **Clerk** and **Stripe** with a comprehensive credits system.
- Enabled community engagement and efficient image search with community showcase feature, AI-enabled image search, and detailed transformation management.

Swacch Bharat Mission Urban 2.0
- Engineered dynamic webpages for the Swacch Bharat Mission survey used by over 100 million citizens across India, using **React**.
- Integrated secure authentication for over 100 million users, utilizing the governments first **facial recognition** based authentication app - **Avatar**.