

Ayaan Siddiqui

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Education

B.S. Computer Science (3.6 / 4.0 GPA)

University of Pittsburgh

Senior at the School of Computing and Information

Expected Graduation – April 2025

Pittsburgh, United States

Relevant courses: Algorithms and Data Structures, Operating Systems, Software Quality Assurance, Web Development, Data Science, Cloud Computing, Software Engineering.

Skills

Programming Languages - Java, Python, C, Swift, JavaScript, TypeScript, Rust, HTML, CSS, SQL.

Technologies - TensorFlow, SQLAlchemy, SwiftUI, React.js, Node.js, Next.js, sanity.io CMS, TailwindCSS, Flask, AJAX, JWT, bCrypt hashing, PostgreSQL, MongoDB, Clerk, Three.js, Cloudinary, Stripe.

Professional Experience

Tata Consultancy Services

May 2024 – July 2024 | Kolkata, India

Fullstack Developer Intern

- Integrated **external devices** with the **local agent node server** using their respective **SDKs**.
- Implemented **report generation** for a **Passport Back Office module** in the frontend using **React**.
- 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** using the **bCrypt** encryption library.

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

Bitcoin dashboard

- Developed a cutting-edge **Bitcoin data dashboard** using **python** and **hosted** on **Streamlit**.
- Scraped data using an open-source API by LuxorLabs to obtain real time Bitcoin data.
- Created a dynamic platform that provides **real-time** insights into crucial metrics like **hash rate** and **OHLC prices** using **Streamlit UI**.
- Leveraged Streamlit's libraries, allowing users to **tailor** their analysis within a **selected time frame** for a comprehensive understanding of **cryptocurrency trends**.

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**.

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.