Sayantan Paul

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EDUCATION

- **MCKV Institute of Engineering** — Kolkata, West Bengal, India
  Bachelor of Technology - Information Technology; GPA: 8.5 — *Nov 2020 - Sep 2024*
  Courses: *Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Database Management Systems, Operating Systems*
- **Uttarpara Amarendra Vidyapith** — Hooghly, West Bengal, India
  West Bengal Council of Higher Secondary Education ; Grade: 65.4 — *May 2018 - Jul 2020*
- **Uttarpara Amarendra Vidyapith** — Hooghly, West Bengal, India
  West Bengal Board of Secondary Education; Grade: 79.8 — *Jan 2008 - Mar 2018*

EXPERIENCE

- **Paraheights Technologies**
  Frontend Developer Intern — *Apr 2024 - July 2024*
  - **Scalability**: Contributed to migrating the company's internal website from React.js to Next.js, resulting in a 30% improvement in efficiency and scalability. Implemented optimized code structures, enhancing performance and developer experience.
  - **Internal work file editor**: Built an internal work file editor incorporating a rich text editor and sheets implementation with the intent to improve document management and collaborative editing capabilities within the team.
  - **Internal training/Course builder**: Collaborated with the team to build an Internal Training/Course Builder tool aimed at managing the company's internal courses, streamlining the training setup process, reducing time by 20%, and increasing training effectiveness.

SKILLS

- **Programming Languages**: JavaScript, C++, Python
- **Frameworks**: React, NextJS, TailwindCSS, Redux, Node.js, Express.js, MongoDB, Mongoose, JWT
- **Tools and Technologies**: Microsoft Visual Studio, Git, GitHub, AWS, npm, Sanity CMS, Firebase
- **Soft Skills**: Content writing, Debugging, Collaboration, Open-Mindedness

PROJECTS

- **Orbit-Space (Typescript, Next.js, Zustand)**
  - Developed a Lofi music app to enhance focus and relaxation, inspired by the Lofi Girl YouTube channel. Implemented Spotify authentication, customizable live wallpapers, user-defined playlists, and four unique themes. Integrated sound effect controls, and draggable user-defined cards. Utilized Zustand for state management and cache-based data persistence, ensuring a seamless user experience across devices. **(Project Link)**

- **SpaceDev (Next.js, Tailwind CSS, Firebase Storage)**
  - Created a blogging platform enabling users to publish articles and connect globally. Integrated Firebase for user authentication, image storage, and data management. Implemented a rich text editor for enhanced article formatting and ensured a fully responsive design for seamless user experience across devices. **(Project Link)**

- **NoSpam. (Python, Flask, Scikit-learn, Next.js, Tailwind CSS)**
  - This application consists of two different sections - spam detection (identify and flag spam, inappropriate, and promotional messages), and identifying the user's sentimental behavior based on their vocal input. Utilized a Naive Bayes machine learning model from Scikit-learn with Flask for processing, and integrated NextAuth.js for efficient user authentication. **(Project Link)**

- **Wind-mill (React, Tailwind CSS)**
  - This web application displays real-time weather conditions of any city. Implemented a custom React hook for fetching and parsing API data, enhancing user experience with dynamic backgrounds based on weather conditions. **(Project Link)**

ACHIEVEMENTS

- Flipkart GRiD 5.0 Semi-Finalist: Selected amongst top 30,000 out of 400,000 teams across India and the US. - Aug 2023
- AWS ML Scholarship: Received a scholarship voucher from AWS Machine Learning Foundation. - Oct 2022
- HTM 3.0: Presented an innovative solution in Hack the Mountains by Sudan's Tech for the 2022 session. - Sep 2022