Parth Bagda

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Education

Indian Institute of Technology, Guwahati, BTech | Nov 2020 – May 2024
- GPA: 6.93/10.0

A Success School, Higher Secondary School | June 2018 – May 2020
- GPA: 8.4/10.0

Experience

Software Developer, **Practo Technology**, Banglore | June 2024 – present
- Developed and maintained backend services with **Java** and **Spring Boot**, and Working with **Microservice architecture**.
- Worked on extensively with **PostgreSQL**, designing, implementing, and **optimizing complex SQL queries** to greatly improve application performance and enhance the user experience. which solved many query **timeout issue** on the production.
- Implemented a feedback system using **AWS SQS** and **SNS** to notify patients via SMS and email after doctor appointments, enabling them to provide feedback. This system enhanced company **growth** and **outreach**.
- Built a **URL shortening** service that allows custom keywords for mapping long URLs, or auto-generates short URLs if no custom keyword is provided.

Software Developer, **UniAcco**, Remote | Jan 2023 – March 2023
- Developed a workflow and cronjob to migrate **1.5L+ MP3** files from **Knowlarity server** to **AWS S3**.
- Optimized **PDF compression algorithm**, achieving over **95%** of target size with minimal quality loss.
- **OpenAI's API** for content optimization on data scraped with **BeautifulSoup4**, enhancing website **SEO** for UniScholars, resulting in improved **search engine rankings**, higher organic traffic and Ux.
- Implemented Celery to run **cronjobs** for **3K+** universities, boosting **SEO rankings** and **site performance**.

Projects

SwanShare | Blockchain Based File Sharing System | Github
- Designed a file management system employing **AES symmetric encryption** and **RSA asymmetric encryption** for file security. Utilized **IPFS** to facilitate **decentralized file storage**, enhancing data resilience and accessibility.
- Integrated **Web3Storage** as a gateway, enabling seamless uploading and retrieval of files on the **IPFS** network and Implemented **Socket.IO** for real-time connections and threading techniques to maintain active connections.
- Established a proprietary blockchain network to store and manage file content identifiers **(CIDs)**, ensuring data integrity and traceability.

Audify | Github
- Devised a web app using **React** and **Node.js**, enabling users to create and organize customized audio collections.
- Accomplished seamless video-to-audio conversion with **FFmpeg** and automated caption generation using **Whisper**. and used **Firebase** services for streamlined data storage and secure user authentication.

GoFood : Online Food Ordering Web App | Github
- Developed a full-stack application using **MongoDB**, **Express**, **React.js**, and **Node.js** with secure user authentication via **JWT**, **bcrypt**, and Express validator.
- Optimized project functionality by integrating HTTP APIs and **WebSocket** for seamless, interactive features and real-time updates.

Technical Skills

Programming: C/C++, Python, Java, Javascript

Web Technology: HTML, CSS, JavaScript, ReactJs, ExpressJs

Miscellaneous: SpringBoot, SQL, Firebase, git, GitHub, MongoDB, Docker, Nginx