Abir Ganguly

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EDUCATION

Guru Nanak Institute of Technology — October 2020 – Present
B. Tech, Computer Science and Engineering — *9.44 (Semester average)*

St. Xavier's Institution — Mar. 2018 – 2020
Higher Secondary (ISC), Science — *78.50%*

St. Xavier's Institution — Mar. 2017 – 2018
Secondary (ICSE), Science — *91.40%*

EXPERIENCE

Banga Sahitya Kutir | *Backend Developer* | Deployed Website — **Aug. 2023 – Feb. 2024**
- Implemented **custom controllers**, **security and permission checks** in a headless cms - **strapi**
- Applied Image optimization, **searching, sorting and debounce** in **Next.js**
- Used **Django and HTMX (https://htmx.org/)** with reactivity in multiple pages
- Implemented **SEO, backups, cron jobs, Image optimization, PWA, OAUTH, E-Mail, captcha, payment and shipping integration, order tracking, cancellation and invoice generation**
- Deployed on **AWS** EC2, S3 and Cloudfront for CDN

JMD Web Studio | *Backend Developer Intern* — **Aug. 2022 – Dec. 2022**
- Implemented backend of multiple apps like: Buzz and Academix in **Express.js and Node.js**
- Enabled realtime communication and nearby user discoverability using **socket.io**
- Built an admin dashboard using **React.js**
- Implemented bulk chat selection and **reporting** for inappropriate content and **email**
- Integrated **Razorpay** payment gateway
- Deployed projects to linux servers like **AWS EC2**

PROJECTS

Rasoi | *FastAPI, Tensorflow, React, Next.js, postgresql, Python, JavaScript* | Source Code | Deployed Site — **Nov. 2023**
- A website for **engaging with recipes**, **search**, explore and get **recipe recommendations**.
- Implemented **image search** using **pgvector**, **feature extraction** from image using **MobileNetV3** model.
- Implemented a simple **recommendation system**, based on user's past engagements.
- Implemented **search using ingredients** utilising **postgres array** queries.
- Wrote the whole site in **React / Next.js 14** app router with SSR and CSR, SEO, image optimization.
- Implemented simple **JWT** token authentication, auto generated **swagger docs**, recipes and recommendations **REST API** routes using **FastAPI** and deployed in **AWS ec2**.

Chlorophyll | *Flutter, Dart, Tensorflow, Python* | Source Code — **Nov. 2022**
- A simple Plant disease detector APP, using image classification (**Machine Learning**) technique
- Used the **Plant Village** dataset to train the model with 39 classes with augmentation
- This app works offline, using a **CNN model** within the app itself

PUBLICATIONS

Spring boot JWT authentication (auth0) with Swagger docs (springdoc)
My experience with a **headless CMS (Strapi)** – dev.to

CERTIFICATIONS

Joy of Computing Using Python | NPTEL, IIT Madras — **Jan 2021**
Machine Learning with Python (with Hons.) | Coursera — **Apr 2023**
AWS Cloud Technical Essentials | Coursera — **Feb 2024**

TECHNICAL SKILLS

Languages: C, Java, Python
Technlogies/Frameworks/Libraries: Django, React.js, Next.js