Ashutosh Kumar Roy

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SKILLS

- **Programming Languages:** Python, JavaScript, C++, C, Java
- **Web Development:**
  - **Front-end:** HTML, CSS libs-Tailwind, Typescript, ReactJs, NextJs, Redux, EmailJs
  - **Back-end:** Django, FastAPI, Flask, NodeJS, ExpressJs, REST API, GraphQL, LLD
- **Database:** PostgreSQL, MySQL, SQL Server, MongoDb, SQLite
- **Tools:** AWS Cloud, GCP Cloud, Git, Linux, Docker, Bitbucket, Apache Kafka, gRPC, Elasticsearch, Postman

EXPERIENCE

Ethan.ai Private Limited   Bangalore, India
Full Stack Developer   August 2024 -

- As a Full Stack Developer, I **led** the **integration** of a project from another company being merged into ours, developing the **(LLD)** to integrate their codebase into our environment. The project involved migrating two primary applications—one built with **ASP.NET** and **SQL Server**, and the other with Flask and MySQL—to our stack, which includes Next.js for the frontend and Django + FastAPI with PostgreSQL for the backend. I handled **database migration**, server-side deployment in GCP (using Windows and Debian VMs with Cloud SQL), and domain mapping via **AWS Route 53**. Additionally, I redesigned over 100 APIs, integrated their code into our system, and delivered the project within tight deadlines.
- I focus on optimizing database scalability using **Pgpool** while mentoring junior developers on logic building and writing efficient code. My responsibilities include conducting **code reviews**, managing **pull request (PR)** merges, assigning tasks to junior developers, and ensuring they complete their assignments on time.

Accenflair Pvt Ltd   Hyderabad, India
Full Stack Developer   January 2024 - August 2024

- As a Full Stack Developer, spearheaded the integration of **Kafka**, **Twilio**, **Onsignals**, **Elasticsearch**, and Kibana into **SaaS** applications, enhancing functionality and scalability. Took ownership of the **notification** system by implementing **email**, **SMS**, and **WhatsApp** notifications, and developed comprehensive reporting features and streamlined **admin** interfaces.
- Leveraged **React** with **Redux** to create intuitive and responsive user interfaces, optimizing user experience and engagement. Implemented **Stripe** payment integration and designed **GraphQL** endpoints for the admin dashboard, ensuring seamless payment processing and efficient data retrieval. Utilized **gRPC** for synchronous communication between **microservices** and successfully integrated **Hubrise API**, showcasing proficiency in full-stack development.

Yenepoya University   Bangalore, India
Assistant Professor   August 2023 - November 2023

- I worked as an Assistant Professor (Grade 1), teaching Computer Science graduates courses on programming, data structures, and problem-solving.

INTEL   Bangalore, India
Full Stack Developer Intern | *Certificate*   July 2022 - June 2023

- I developed a Full-stack Dashboard application for the Data Center and AI group as part of a team of 8 members. This web portal was created using front-end technologies like **HTML**, **CSS**, **Bootstrap**, and vanilla **JavaScript**, and back-end technologies like Python **Flask**, **SQLAlchemy**, and **PostgreSQL**. The portal represents a cross-Intel initiative to drive systematic, market-important workload orientation into Intel's product planning, development, and delivery.
- As part of this project, I worked on **benchmarking** the performance of software execution on **Intel chips** and its competitors. I implemented **filtering** features based on datetime and other fields, populated tables using **ag-Grid**, and created benchmarking graphs using **Highcharts**.

PROJECTS

ClickShop | HTML, CSS, React, Redux, Django, PostgreSQL, AWS, S3, Heroku | LIVE Link | GitHub

- I developed a secure **user authentication system** for account creation, login, and profile management, along with product listing pages featuring detailed descriptions and a **robust shopping cart** for seamless browsing and purchasing. The application includes a streamlined checkout process with **PayPal integration**, an **order management system**, and product **rating/review** functionality to enhance user engagement and trust. Additionally, I created an **admin panel** for efficient management of products, users, and orders, incorporating pagination and search features for an improved user experience. The application was deployed on **Heroku**, leveraging **AWS S3** for serving static files and **AWS RDS** for database storage, ensuring **scalability**, **reliability**, and optimal performance in a **cloud-based** environment.

LIVE ChatApp | React, HTML, SCSS, Firebase, Netlify | LIVE Link | GitHub

- Developed a **real-time** chat feature that allows users to send and receive messages and images, search for other users, and initiate chats, all within a visually appealing and responsive interface optimized for PC, tablet, and mobile devices. The feature leverages **Firebase Authentication** for secure user authentication, **Firebase Storage** for storing user profile pictures, and **Firestore Database** to manage authenticated user data, friends' information, and chat messages.

Tech Portfoilio App | HTML, CSS, NextJS, Vercel | LIVE Link | GitHub

- As an open-source contribution, I developed an **SEO-optimized** landing page for "Oasis of Ideas" from scratch using **Next.js**. The application includes CSS animations and a dark mode feature implemented with React's **Context API**. It provides a brief overview of the company and their services, along with a direct link to their website.

More... | Visit my Portfolio website | Portfolio

EDUCATION

- **National Institute Of Technology(NIT)** , Hamirpur, HP   July 2021 - July 2023

  - **Masters of Technology(MTech)** in Computer Science and Engineering

- **Uttrakhand Technical University(UTU)** , Dehradun, UK   Aug 2016 - Sept 2020

  - **Bachelor of Technology(BTech)** in Computer Science and Engineering

ADDITONAL SKILLS and ACHIVEMENTS

Educator(Youtube)
I run a YouTube channel guiding my subscribers on problem-solving and coding. Following are my courses:

- Full Stack Mastery: This course contains videos on building Projects from scratch.
- DSA Course: A course on solving easy, medium, and hard-level Data Structures and Algorithms (DSA) problems on coding platforms like LeetCode, along with in-depth concepts of problem-solving and DSA.

2x GATE Qualified

- Crack GATE CSE 2020
- Crack GATE CSE 2021