Ronak Agarwal

ronakagarwal3434@gmail.com | LinkedIn: ronakagarwal3434

Education

Indian Institute of Technology, Kharagpur   **2019 - 2023**
B.Tech in Chemical Engineering   CGPA: 8.98/10

Internships

Software Engineering Intern | Honeywell Technology Solutions   **[May'22 - Jun'22]**
• Built a **Java**-based REST API using **Spring Boot** framework and integrated it with Honeywell IAM service authorization mechanism
• Developed custom **Web Data Connectors** for BI tools like Power BI, Tableau, and Google Studio using JavaScript and M language
• Implemented **OAuth 2.0 and OpenID Connect** flow using web data connectors for authorization and authentication of the end user

Backend Engineering Intern | Finllect Digital Technologies Ltd   **[Dec'21 - Feb'22]**
• Developed a **microservice-based** merchant platform using Node.js, Express.js which allowed company to onboard **7 banks** as clients
• Incorporated **BullMQ**, **Express Gateway,** APIs to show analysis, manage applications, pay dues to increase monthly profits by **$84000**
• Integrated **Twilio Segment** for analyzing user interactions in the application and **Stripe** suite for powering online payment processing
• **Automated** process of **KYC verification**, managing document invalidation using Faceki which helped in reducing manual work hours

Backend Development Intern | Meetsmeta   **[Sep'22 - Nov'22]**
• Worked on Web 3.0 technologies such as blockchain, metaverse on platforms such as Ethereum, Polygon, and Binance Smart Chain
• Used Alchemy and Morallis to sync data of various tokens and NFTs on multiple networks using redis stream broker and redis queue

Software Engineering Intern | GoInsightful   **[Mar'21 - Jul'21]**
• Upskilled **Node + Express Shopify App** development abilities in order to construct prototype, reducing the milestone by **two weeks**
• Programmed company's landing page from ground up, which gained the attention of over **150+ new users** even before product launch
• Integrated and authenticated backend with **Flask**, improved UI and UX in the dashboard website by maintaining Github's best-practice

Competitions

Smart India Hackathon | Government of India   **[Apr'22 - Aug'22]**
• Spearheaded a team of **6** students, was shortlisted as **National Finalists** across **8000+ institutes** for Smart India Hackathon, created a platform to assist the NDRF teams with automatic analysis of social media for strategizing an appropriate emergency response

Inter IIT Tech Meet | Technology Students' Gymkhana, IIT Kharagpur   **[Feb'22 - Mar'22]**
• **Bronze** medal in Inter IIT Tech Meet 2022 for Blue Yonder's Sustainable Supply-Chain event. Implemented the pitched flagship solution using **ReactJS** of digital platform involving the key stakeholders: companies, start-ups, ESG investors, and academia

Website Hackathon 2021-22 | Technology Students' Gymkhana, IIT Kharagpur   **[Dec'21 - Feb'22]**
• Led the team to procure a **Silver** across the college by developing a website to organize students' academic & extra-curricular data
• Created a full-fledged **MERN** stack application. Bagged the **best feature award** for two out of several features added to the interface

Projects

B.Tech Project | Prof. Saptarshi Ghosh   **[Jul'22 - Nov'22]**
• Developed a system for **real-time automatic analysis** of social media posts for disaster relief operations during any disastrous event
• Incorporated **Twitter streams API** and **AWS kinesis data firehose** for streaming and analyzing tweets in real-time respectively
• Used **AWS translate, comprehend, location service** for extracting information, **algolia** for the search feature in the **MERN** stack app

Social Media Website | Self-Project   **[Nov'21 - Dec'21]**
• Programmed a social media website using API-based backend using Node.js, Express.js and MongoDB, and **Cloudinary** for images
• Worked with **NextJS** and **Bootstrap** for serving content in frontend and integrated **SocketIO** for real-time posts on the home page

Skills and Expertise

Languages: JavaScript, C, C++, Python, HTML, Java, CSS **Libraries/Frameworks:** Node.js, Express.js, ReactJS, Spring Boot, Flask
Software and Tools: Git, AWS, VS Code, Power BI, Tableau, Google Studio, MS Office **Database**: MongoDB, Redis, Firebase, SQL

Extra Curricular Activities

• Participated in IIT Kharagpur Open Soft 2021-22, developed a scalable microservice-based app, implemented a **hybrid cloud solution**
• **Senior Web Team Member** with Kharagpur Data Analytics Group, working on a bespoke website for the organization from scratch
• **Design and Media SubHead** of Spring Fest, social and cultural fest of IIT Kharagpur, created media content for social media handles
• Contributed to multiple **open source projects** provided by Kharagpur Winter of Code conducted by Kharagpur Open Source Society
• Member of the cricket team of Radhakrishnan Hall of Residence, IIT Kharagpur in the 2019-20 and 2021-22 General Championship