Kaustav Ghosh

GitHub | LinkedIn | teetangh@gmail.com | Gugraon,India | +91-8800441954

EDUCATION

Manipal Institute of Technology 2018-2022
BTech in Computer Science & Engineering specializing in Computational Intelligence **Lab Work:** [Repository]. CGPA: 8.57/10
Courses Taken: Database Management Systems, Operating System, Computer Networking, Software Engineering, Object-Oriented Analysis And Design(OOPs), Digital Logic Design, Distributed Systems, Computer Organization And Architecture

WORK EXPERIENCE

- **Hevo Data, Bangalore - Software Development Engineer Intern** Jan'22-Jun'22
  - Worked in the backend integrations team where I designed and implemented an end-to-end **REST API connector** and **SDK** for the data source, Braze, a software as a service (SaaS) platform, by deciding the source objects, the polling strategies, building the SDK authentication, models, client, and the connector offset, tasks, and services for polling each source object.
  - Worked on debugging several issues on already existing connectors tracked by **Sentry** and **Coralogix**, wrote suitable documentation and developed unit tests for Outbrain using **JUnit5** and **Mockito** and which were subject to code review.
  - Worked on resolving Google Big-Query and Marketo On-call issues supported with Senior developers
- **Samsung R&D, Bangalore - Software Development Engineer Intern** Jun'21-Jul'21
  - Designed and implemented **MQTT bridge functionality** in Moquette, an open-source lightweight Java MQTT broker
  - Implemented a **socket programming system** for the transfer of messages between the MQTT message broker and the bridge client and also a **lexical analyzer** to parse the user-specified configuration of the bridge properties and the bridge client

RESEARCH WORK

- **Samsung PRISM - Machine Learning Intern** Sep'20-Mar'21
  Intelligent Ranking for Dynamic Restoration of Next Generation Wireless Networks
  - Implemented Machine Learning algorithms and Feature Engineering techniques to predict KPI values for eNodeB-s and consequently a ranking system to orderly restore them during a network failure.

PROJECTS

- **Noteups - A Lecture Notes sharing platform [Repository].**
  - Implemented the front-end using **ReactJS, Redux Toolkit and RTK Query** for state management, **Framer Motion** for animations and **Styled Components** for styling, **Media Queries** for responsive design, **Sass** for CSS pre-processing
  - Implemented the back-end using **NodeJS** and **ExpressJS** for server-side rendering, used **MongoDB** as a non-relational(NoSQL) database and, Cloudinary for images storage and **PassportJS** for JWT and OAuth authentication.
  - Implemented functionality to synchronize the note products between **Cloudinary** and **MongoDB**. and integrated **Stripe** for payment processing and working on integrating Razorpay.
  - Deployed on the cloud with the frontend on **Netlify** and the backend on **Heroku**. **Deployed Links:** [Frontend] [Backend].
- **Freelancing standalone web development projects**
  - Implemented a JSON Web Token Authentication system for a **NodeJS** backend. [Project].
  - Developed a Movie-Ticket booking website using **MongoDB, Nodejs and Express.** [Project].
  - Developed a project management application using **Python, PostgreSQL, and psycopg2.** [Project].
  - Developed a horizontal non-linear stepper form using **ReactJS** [Project].
- **Microsoft Student Partners - Machine Learning Bootcamp**
  - Demonstrated leadership skills by mentoring a team of 10 individuals to accomplish a Regression task of price prediction of cars in a machine learning pipeline through Exploratory Data Analysis, Feature Engineering and Model Building. [Minor]. [Major].
- **Finland Labs & IIT Roorkee - Time Series Forecasting, Data Analysis and Web Scraping**
  - Prepared a complete Data Analysis report on Worldwide COVID-19 attack statistics and used Facebook's Fbprophet Time-series Forecasting library to speculate the number of active corona victim cases in the upcoming days. [Project].

TECHNICAL SECTION

Data Structures, Algorithms and Competitive Programming: Collection of coding problems [Repository].
Programming Languages: Fluent in C/C++, Java, Javascript, Python, Bash, Familiar with Oracle SQL,LaTeX, Linux Shell Scripting
Developement: Proficient in HTML5, CSS3, JavaScript, MERN tech stack.Familiar with Typescript, Next.js, GraphQL, Microservices
Tools, Technologies and Methodologies: Git, Github, Google Colab, Firebase, Docker, Kubernetes(basics), MySQL, Postgres/PostgreS Postman, Jira, Confluence, Redis(basics), Maven, Linux, Agile, Scrum.