Kaustav Ghosh

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EDUCATION

Manipal Institute of Technology   Manipal, IN | July 2018-2022
B. TECH COMPUTER SCIENCE & ENGINEERING (W/COMPUTATIONAL INTELLIGENCE SPECIALISATION)   CGPA: 8.57

WORK EXPERIENCE

HEVO DATA | SOFTWARE DEVELOPMENT ENGINEER INTERN   Bangalore, IN | Jan'22 – Jul'22
- Designed and implemented an end-to-end **REST API connector** and **SDK** for the data source, Braze by deciding the source objects, the polling strategies, building the SDK authentication, models, **Feign client**, and the connector offset, tasks, and services for polling each source object in the **ETL** process.
- Worked on and resolved several bugs on already existing connectors tracked by **Sentry** and **Coralogix**
- Resolved Google BigQuery & Marketo On-call issues and wrote **unit tests** for Outbrain using **Junit5 and Mockito**

SAMSUNG R&D INSTITUTE | SOFTWARE DEVELOPMENT ENGINEER INTERN   Bangalore, IN | 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

SAMSUNG PRISM | MACHINE LEARNING INTERN   Bangalore, IN | Oct'20 – Mar'21
- 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 ↗   REACT,MONGODB,NODEJS,STRIPE
- Implemented the frontend using **ReactJS** and **Redux** for state management, **Framer Motion** for animations and **Styled Components** for styling, **Sass** for CSS pre-processing and Font Awesome for icons.
- Implemented the backend using **NodeJS and ExpressJS** for server-side rendering, used **MongoDB** for NoSQL DB, Cloudinary for pdf and metadata storage, and **PassportJS** for JWT authentication and Social OAuth Login.
- Implemented functionality to synchronize the note products between **Cloudinary** and **MongoDB**.
- Integrated Payment gateway **Stripe** for creating subscription payments, currently working on integrating Razorpay.

LEXICAL ANALYSER AND RECURSIVE DECENT PARSER ↗   C
- Implemented a **Lexical Analyser** that extracts tokens from a C source file and a Symbol Table Generator to store information of identifiers and functions **[Source Code]**
- Implemented a **Recursive Decent Parser** that semantically parses the grammar for a subset of C-Language by analyzing the tokens generated by the Lexical Analyser, reports syntactic & semantic errors **[Source Code]**

MICROSOFT STUDENT PARTNERS - MACHINE LEARNING BOOTCAMP ↗   PYTHON
- Guided a team of 10 individuals to collaborate and accomplish a **Regression task** of price prediction of used cars.
- Performed **Feature Engineering** to extract the most important attributes of the data-set using Uni-variate and Multi-variate Filtering techniques, Mutual Entropy Gain Filtering, and also feature selection using RMSE Regression and ANOVA tests.

FINLAND LABS - TIME SERIES FORECASTING, DATA ANALYSIS & WEB SCRAPING ↗   PYTHON
- Prepared a complete **Data Analysis** report on the Worldwide COVID-19 attack statistics and used Facebook's Fbprophet Time-series Forecasting library to speculate the number of upcoming corona victim cases

TECHNICAL SECTION

Languages: C, C++, Java, Python, Javascript, Bash, SQL
Frontend Development: React,Redux Toolkit,RTK Query, Framer Motion,Styled Components
Backend Development: NodeJs,ExpressJs,MongoDB,MySQL,Django(basics)
Technology: Git & GitHub, Docker, Kubernetes(basics), Cloudinary, Redis,Jira,Confluence,Postman,Maven