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Debojyoti Paul

Software Engineer

linkedin
Github

SKILLS

- Java | Shell | Python | Clickhouse | Cassandra | Redshift | Kafka | Azure | Jenkins | Ansible | Hadoop | PIG | AppDynamics
- Microservices | Data Engineering | Distributed Systems | Backend | Agile | Google Analytics | PostHog | Amplitude | Google BigQuery | Looker

EDUCATION

B.Tech in Computer Science, Tezpur Central University, Assam GPA: 8.4/10 **2014 — 2018**
HSSLC, St. Anthonys, Meghalaya, GPA: 8.42/10 **2012 — 2014**

EXPERIENCE

Software Engineer-2 (E5) **Nov 2019 — Present**
Whatfix Bangalore

Real-Time Analytics Platform

- Led the implementation of Whatfix's Data pipeline which can handle **500M** events per day with peak RPS of 4000 using **Clickhouse as OLAP database, kafka, Java and Ngnix**.
- Developed collector and consumer module for the data pipeline along with schema design, backup and rawlog management strategy, alerting using AppDynamics and client-side Tracker framework changes.
- Re-wrote 400+ static **Redshift SQL queries** in **Clickhouse** as part of analytics redesign. Was able to achieve 500% increase in dashboard load time due to the **optimal clickhouse schema and optimized queries**.
- Designed and implemented a microservice for managing and rotating AES encryption keys, saving 2 weeks of effort every half-year for key rotation for complying with enterprise security regulations. The microservice was developed using **Java, Azure Cosmos for Cassandra, Azure Vault, and gRPC**
- Set up the Secondary **observer ClickHouse datacenter** to be used for disaster recovery purpose. In addition, Led the effort to migrate the entire data pipeline from Digital Ocean to Azure with zero data loss and 100% uptime
- Implemented query builders for funnels, cohorts, and insights, which power the cohort engine, funnel, and enterprise insights analytics dashboard. Followed **SOLID** principle for most optimal and clean code along with 90% unit and automation coverage.
- Developed Reporting system in **Spring Boot** to expose analytical data for 3rd party integration.
- Worked on GA Universal Analytics to Google Analytics 4 migration for custom GA integration module.
- Developed critical bug fixes and enhancements to whatfix's batch ETL data pipeline responsible for moving data from **Google Analytics to Redshift**, and performing aggregations which reduced the job failures to 0% and enable to handle 200% more load from 50M from 1000M events.

Software Engineer **August 2018 — Oct 2019**
Nissan Motor Corporation Trivandrum

- Developed an system for uploading complex csv files, performing critical business validations, and storing the data in MS SQL Server. Also Created modules for downloading the data in 15 different CSV formats, which are then used for visualization purposes
Tech : Java EJB , JPA , JSF , MsSQL Server

AWARDS & HONORS

- Whatfix Success Engineer of the quarter, 2022 Q4 (Success engineer is a role where a representative from the team has to be on call for production incidents and resolve production issues within defined SLA)
- Whatfix Eitome of Team work, 2022 Q3
- Whatfix Success Engineer of the quarter, 2019 Q3
- 1st in the Java, Devops and Agile training organized by Nissan as a part of developer on-boarding

PROJECTS

Househarbour.com (PHP, MySql) **December 2017**

- Founded househarbour.com, a website that offers a comprehensive list of hostels and PGs in Shillong to help students choose suitable accommodation based on their requirements. The website has received positive feedback from both hostel owners and students who have used it. The website was built using PHP, MySQL, JavaScript, and Bootstrap.

Text Mining (Python, NLTK, Flask) Internship-IIT Kharagpur

July 2017

- Completed a project on information extraction developing an co-occurrence network from tags obtained from applying Named Entity Recognition(NER) on 10,000 articles using python NLTK library and visualized in a web view using Flask.

Chatroom (NodeJs, MongoDB, Angular)

Mon Feb 2017

- Developed an application that enables users to gain access to a live session using JWT authentication and participate in group or private chat with other users connected to the same session. The application utilizes Socket.io for socket communication