Arijit Kumar Roy

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PROFILE SUMMARY

I am a seasoned Software Engineer with 6+ years of cumulative experience in Data and AI Engineering, Linux, Distributed Systems, Cloud (AWS/Azure) and SaaS products. Currently working in a Data Platform Engineering role with previous experience in Full Stack Development (MEAN/MERN). I have worked with technologies in Conversational AI, Applied Generative AI, Lang chain, Embeddings, Python, Golang, Spark, Databricks, Snowflake, dbt, Rest APIs, DeltaLake, and Databases regularly looking over the CI/CD and production deployment and deliverables in my team.

EXPERIENCE

RED HAT | SENIOR SOFTWARE ENGINEER | DATA & AI, PLATFORM ENGINEERING
Apr 2024 – Present | Bengaluru, India

- Building a self–service Data Platform Framework, with the dream to open-source it
- Tech: *Git Ops, Snowflake, dbt-Core, AWS, Golang, Kubernetes, Python, Fivetran, Atlan, CI/CD*
- Delving into the world of inner-source, contribution model, data transparency driven system design
- Onboarded and integrated Atlan, data governance SaaS, shipped to production, scale growth & adoption
- Building Metadata Completeness for Agentic frameworks, MCP servers, AI observability & tools

BEEM | SR. DATA ENGINEER | FINANCIAL SERVICES
Nov 2023 – Mar 2024 | Remote, US

- AI First Fintech Startup for US working class consumers
- Developing Data & AI Platform (**50M+ users**) for Personal Finance Management tools using LLMs with Data Governance and Orchestration
- Investor pitches & completed fundraising from Databricks of $16k, with future commitments of $24k
- Created workflows to analyse **clickstream** data of users (*AWS* , *Python, Databricks, Mixpanel, Metabase*)

TATA DIGITAL | SR. SOFTWARE ENGINEER | E-COMMERCE, RETAIL
Aug 2021 – Oct 2023 | Strategic Initiatives | Bengaluru, India

- Conversational AI | Big Data | Data Warehousing (**120M+ users**)
- Working on Generative AI based Product Search Tool and Recommendation Engine using *Azure Open AI, Mistal, LangChain, Embeddings, Vector Databases* (*Chroma / Milvus*)
- Migrated from Legacy to Delta Lake Architecture and optimized Total Cost of Ownership & Efficiency (*Python, Spark, Databricks, Delta, ADLS, CI/CD in Azure DevOps, KQL/SQL*)
    - Implemented Load balancing to **reduce operation TTL by 10 times**
    - Reduced **operation latency by 75%, cost by 80%**
- Customer Support Call Evaluation using Deep learning, Speech-to-Text, Audio ML techniques
- Created micro-services for API monitoring for multiple brands integrations & downtime alerts for the **AI chatbot** program, for **12 indic languages**
- Live Dashboards for 24x7 for real-time monitoring & alerting

GNOSIS LAB | SOFTWARE DEVELOPER, FOUNDING ENGINEER | NASSCOM 10K STARTUPS
June 2019 - May 2021 | Kolkata, India

- Built an AI bot for a SaaS Platform to automate social media marketing on Instagram, Twitter using *Serverless, Python, AWS, Web Scraping, Data Modeling*
- MEAN Stack Developer (*Typescript, Angular, AWS, Lambda, DynamoDB, MongoDB, Docker*)
- Worked on Learning Management System Platform, **backend heavy** (50+ APIs)

PROJECTS

DOCTOR – CLINICAL MANAGEMENT SOFTWARE | FREELANCE PROJECT

2021 | React Native, Google Cloud, Firebase, Razorpay

- Delivered production ready android app and website for appointment bookings and doctor practice management using React Native and Firebase as a backend.
- Integrating Razorpay for payment services for customers to securely transact.

OFFLINE FILE SYSTEM SEARCH | RESEARCH PROJECT | SUMMER SCHOOL

March 2017 | Python, Linux Bash tools, NLP

- Document Indexer for Information Retrieval under supervision of Dr. Dwaipayan Roy, Information Retrieval Lab, Indian Statistical Institute , Kolkata

EDUCATION

JADAVPUR UNIVERSITY

MASTERS IN COMPUTER APPLICATIONS
Aug 2018 - Jun 2021 | Kolkata, IN
Distributed Systems / Cloud Computing
Cum. GPA: 8.81 / 10.0

RAMAKRISHNA MISSION VIDYAMANDIRA

BS IN COMPUTER SCIENCE
Aug 2015 - May 2018 | Howrah, IN
Cum. GPA: 8.49 / 10.0

SOUTH POINT HIGH SCHOOL

HIGH SCHOOL
Grad. 2015 | Kolkata, India
Grade: A+

SKILLS

PROGRAMMING

Core Technologies:
Python • Databricks • Snowflake
DeltaLake • Pyspark • AWS
Git Ops • Kubernetes • LangChain
OpenAI / Claude / Mistral • LLMs • Javascript
Additional:
Typescript • Git • Azure
SQL/NoSQL • NodeJS • APIs
MVC • Serverless • Docker
Azure DevOps • React Native
Dbt • Golang • Ansible
Engineering Data Management • Governance
SSO/OAuth systems • Cursor • Claude Code

SPECIALIZATION

Distributed Systems • Information Retrieval
Electronics • Cloud Computing
Data Structures Algorithms
Operating Systems
Object Oriented Programming
ML/AI • NLP

LANGUAGES

English • Bengali • Hindi

HOBBIES

Chess • Table Tennis
Tech blogging • Linux Ricing

LINKS

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