

Diva Dugar

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Location: Bangalore, India

Summary

Result-driven Software Engineer **specializing in backend development**, system optimization, and **integrating machine learning models** into production. Proficient in database design, API development, and cloud hosting, delivering scalable, maintainable solutions aligned with business goals. Skilled in cross-functional collaboration and translating business requirements into impactful technical solutions. **Contributed** to open-source projects, enhancing authentication and security capabilities.

Experience

DataX (CrowdAnalytix Solutions Pvt Ltd), Bengaluru

AUG 2024 -

- Software Engineer 2

- **Led development** of high-performance, **multi-tenant** medical data systems, integrating OpenAI's LLM and conventional machine learning in an agile manner. Designed the initial look of this system using Balsamiq.
- Orchestrated a solution to **reduce noisy neighbour problems** and provide a smooth user experience. Achieved a **80% reduction in task duration** by employing VMs and configuring Celery, exponentially reducing completion time from 11 hours to an astounding 2 hours, reducing time to get results.
- **Optimized system performance** through comprehensive code refactoring, resulting in a 33% reduction in embedding time and achieving zero server load.
- **Led a team** of three engineers, **fostering cross-functional collaboration** with Frontend team, UI/UX Designers, and Data Science Team and accelerating project delivery by integrating technical expertise from multiple departments.

JUN 2024 - JUL 2024

- Software Engineer 1

- Independently developed and deployed a web application, **impacting 20% of Japan's population**, demonstrating the application's vast reach and significance.
- Implemented an **in-house ticket management system**, cutting problem-solving time from one day to four hours, thereby boosting operational efficiency by 75% and significantly improving employee response times. Additionally, I implemented a **GCP monitoring tool** to track utilization and deliver weekly stakeholder reports, improving resource management.

JUN 2021 - MAY 2024

- Associate Software Engineer

- Led data-driven system optimizations, creating advanced data pipelines that **support strategic business decisions** and operational efficiency, handling over one million rows and **enhancing data processing** capabilities by 30%. Managed cloud infrastructure on Google Cloud Platform, **optimizing cost, and performance** through effective logging, monitoring and maintenance strategies.
- Developed a Python script that automated complex calculations, boosting both calculation speed and precision by 40%. Additionally, **engineered and refined CI/CD pipelines** to ensure seamless, zero-downtime deployments and updates, aligning with agile development practices.

Open Source Contributions & Projects

- [Openfga Python-SDK](#) - Enhancing the check for components of jwt.

Skill & Certification

- **Product** - Assessing Functional and Non-Functional Requirements, System Architecture Design, Assessing Design Patterns, Architecting Technical Document, MLOps
- **Data Structures and Algorithms**
- **Programming Languages** - Python, Golang, C
- **ML Model Integration**
- **Frameworks & Libraries** - Django, PostgreSQL, FastAPI, Flask, Celery, DRF, Pandas, Numpy, Scikit-learn, LLM
- **Tools & Platform** - Google Cloud Platform (GCP), AWS, Docker, ElasticSearch, CI/CD, Linux, Nginx, GIT, Redis, RabbitMQ, SnipeIT, Prometheus, Grafana, Kafka
- **Wireframing** - Balsamiq

Education

The Heritage Academy, Kolkata - BCA
CGPA 8

Wrote a paper on how decentralised internet could be a possibility. Stood 2nd out of 30 other teams for a competition held at Jadavpur University by IET in Kolkata.