

Divya Dugar

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Location: Bangalore, India

Summary

Result-driven Software Engineer with over four years of experience in designing and developing systems powered by AI across startup landscapes. Proficient in translating business requirements into robust technical solutions, I am eager to lead innovative backend projects and enhance system efficiency in a senior engineering role.

Experience

JUN 2024 - PRESENT

CrowdAnalytix Solutions Pvt Ltd (DataX), Bengaluru - *Software Engineer 1*

System Design and Optimization:

- **Architected and led the Development** of a high-performance **multi-tenant system** for medical data system, integrating OpenAI's LLM and conventional machine learning in an agile manner. Orchestrated a solution to **reduce noisy neighbour problems** and provide a smooth user experience. Achieved a **80% reduction in task duration**, exponentially reducing completion time from 11 hours to an astounding 2 hours, reducing time to get results.
- **Optimized system performance** through comprehensive code refactoring, reducing embedding time by 33% and achieving zero server load.
- 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%.

Team Leadership and Technical Architecture:

- **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.
- **Architected** and developed robust RESTful APIs, Database designs, and system architectures, facilitating internal knowledge sharing and system reproducibility.

Jun 2021 - May 2024

- *Associate Software Engineer*

Software Development and Deployment:

- Independently developed and deployed a web application, **impacting 20% of Japan's population**, demonstrating the application's vast reach and significance.

Cloud Engineering, Monitoring and Operational Efficiency:

- 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.
- 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** that monitors daily GCP utilization and delivers weekly reports to stakeholders, enhancing resource management and accountability.enhancing resource management

DEC 2020 - FEB 2021

Bloomstack, Kalyan - Intern

- Utilized Frappe and Python to develop **customized Payroll system** for companies in the USA.

AUG 2020 - NOV 2020

Nat IT Solved Pvt Ltd (Part of Cbnits), Kolkata - Intern

- Implemented endpoints using **Golang** and PostgreSQL.

Skill

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

Certificate

- [Specialization In Go](#) | *Coursera* - Nov 2020

Education

2017 - 2020

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.