

SUGUNA P J

PROFESSIONAL SUMMARY

Results-driven Developer with a strong foundation in frontend and backend development, data-driven applications, and scalable system design. Experienced in building RESTful APIs, interactive dashboards, and database-driven web applications using modern frameworks. Adept at translating business requirements into maintainable, high-performance software solutions. Strong analytical mindset with exposure to data science, machine learning, and bioinformatics projects.

TECHNICAL SKILLS

- Programming Languages:** Python, JavaScript, C++, SQL
- Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS
- Backend:** FastAPI, Django, Node.js, Express.js
- Databases:** PostgreSQL
- Data & ML:** Pandas, NumPy, Matplotlib, Seaborn, BioPython, Machine Learning, Data Analysis, Data Visualization
- DevOps & Tools:** Git, GitHub, Docker, CI/CD, AWS EC2
- Other Skills:** RESTful API Design, System Design, Probability & Statistics

EDUCATION

Master of Computer Applications (MCA)

PES Modern College of Engineering | Aug 2023 – Jul 2025

B.Sc. Physical Sciences with Computer Science

Kalindi College, University of Delhi | 2019 – 2022

CERTIFICATIONS

- JavaScript – Infosys Springboard
- Bioinformatics with Python – Udemy

PROFESSIONAL EXPERIENCE

Junior Software Developer Engineer | Redsage Global

Aug 2025 – Oct 2025

- Focused on **frontend development** using **Next.js, React.js, TypeScript, and JavaScript**
- Translated business requirements into **intuitive UI/UX designs and structured user flows**
- Collaborated with backend and design teams to ensure performance, scalability, and consistency.
- Delivered responsive and user-centric interfaces aligned with modern web standards.

Database Intern | Tellme DigilInfotech Pvt. Ltd.

Dec 2024 – Aug 2025

- Developed and maintained full-stack web applications using **React.js, Next.js, Node.js, FastAPI, and PostgreSQL**.
- Designed and implemented **RESTful APIs** for efficient data access and integration.
- Managed relational databases, optimized queries, and ensured data integrity using **PostgreSQL**.
- Collaborated with cross-functional teams for **requirement analysis, system design, and implementation**.
- Delivered scalable and maintainable solutions following best coding and documentation practices.

PROJECT EXPERIENCE

Business Geo-Spread Application

- Built a **geospatial data visualization platform** to analyze business distribution across India.
- Implemented interactive maps using **React.js and Leaflet** with multi-level filtering (category, state, district, pin code).
- Designed backend services using **Node.js** and **PostgreSQL** for efficient querying and data retrieval.
- Improved business intelligence and decision-making through real-time visual insights.

Bharat Microfinance Report Platform (NABARD)

- Converted static financial reports into an **interactive web-based analytics platform**.
- Developed dashboards and charts using **React.js, Express.js, Node.js, and PostgreSQL**.
- Implemented regional risk analysis through interactive maps for improved financial decision-making.
- Enhanced accessibility and usability for non-technical stakeholders.

E. coli Detection Using DNA Promoter Classification

- Built a **machine learning model** to detect E. coli using DNA sequence data.
- Preprocessed genomic datasets encoded as **A, C, G, T** for model training.
- Trained and evaluated an **MLP (Multi-Layer Perceptron)** model using Python.
- Framework Used: **Django**

RESEARCH &

EXTRACURRICULAR

- Research Paper:** *Machine Learning Approaches for Epigenetic Biomarker Discovery in Neurological Disorders* - Published in **IJSREM**
- Alumni Coordinator – Facilitated alumni communication and events
- Member, **S4DS (Society for Data Science)**