

# Paarth Sanyal

## Software Developer

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### Professional Summary

Detail-oriented and innovative Software Developer with a solid background in Computer Science and Engineering (CSE) and hands-on experience in building, testing, and deploying scalable applications. Proficient in Python, Java, C++, JavaScript, HTML/CSS, and skilled in data structures, algorithms, database management (SQL, NoSQL), and software engineering principles. Experienced in leveraging Git/GitHub, Agile methodologies, and cloud-based environments to streamline development workflows and deliver high-quality solutions. Proven ability to analyze requirements, architect solutions, and optimize system performance while maintaining clean, maintainable, and well-documented code. Passionate about problem-solving, learning new technologies, and contributing to team success in fast-paced environments.

### Internship Experience

#### Web Developer Intern — AI Authority

Oct 2025 – Dec 2025

- Converting an existing static website into a dynamic web application.
- Implementing secure payment gateway integration.
- Building a Learning Management System (LMS) with login, course access, and certificate features.
- Tech Used: MERN Stack (MongoDB, Express.js, React, Node.js).

### Projects

#### 1. Kidney Stone Detector

Tech Stack – Python, Deep Learning (CNN), SVM

2024

- Developed a CNN-based model achieving 95% accuracy in detecting kidney stones from medical images.
- Created an intelligent system that generates personalized medical prescriptions based on model predictions.
- Demonstrated reduction in kidney stone recurrence by 30% through evidence-based prevention strategies

#### 2. Decentralized Notes App – “DeNote”

Tech Stack—Android (Kotlin, Jetpack Compose), Node.js, Express, MongoDB, IPFS, Pinata, Multer

2025

- Enabled decentralized uploads with Pinata + IPFS; improved file reliability and availability by 100% via distributed storage.
- Built Node.js + Express backend using MongoDB and Multer; handled 150+ file transactions/day with zero data loss during testing.
- Implemented PDF preview and caching in Android using Jetpack Compose.

#### 3. E-commerce Android App – “Violet”

Tech Stack – Android (Java, XML), Node.js, Express, MongoDB, AWS S3, Retrofit, JWT

2025

- Built 12+ screen UI using Java, XML, and Material Design, reducing navigation time by 30%
- Developed scalable backend in Node.js + Express with 5+ APIs (auth, cart, wishlist), tested for 200+ req/sec.
- Integrated AWS S3 using signed URLs, reducing image load latency by 50%.
- Used Retrofit with local caching to cut redundant API calls by 35%.

### Technical Skills

- **Languages:** C++, MySQL, Python, Java, JavaScript, HTML, CSS
- **Frameworks & Libraries:** Pandas, NumPy, Scikit-learn, Pytorch, Tensorflow
- **Core CS:** DSA, OOPS, DBMS, OS, Competitive Programming
- **DevOps & Tools:** Git, GitHub, Docker, VS Code, Tableau, Excel, MongoDB, MLOps, AWS
- **Soft Skills:** Time Management, Teamwork, Communication, Problem-solving, Leadership

### Education

B.M.S College Of Engineering, Bangalore, Karnataka

Dec 2022 – Present