

# Sreenidhi Guruprasad

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## Education

**Bachelor of Engineering (BE) in Artificial Intelligence and Machine Learning, CGPA: 8.3/10.0**

**Expected Graduation: 2027**

BNM Institute of Technology, Bengaluru

**Courses:** Data Structures, Algorithms, DBMS, Operating System, Computer Networks, Machine Learning, Object Oriented Programming

## Technical Skills

- **Programming Languages:** C++ (Primary), JavaScript, Python, Go
- **Database:** MongoDB, DynamoDB, SQL
- **Libraries/Backend:** FastAPI, Django, Express, React
- **Cloud and DevOps Tools:** AWS (EC2, S3, CloudFront), Docker, Git, Github

## Work Experience

### Software Development Engineer Intern | Legabyte Innovations --Remote

- Engineered scalable **admin backend** using **Express.js, DynamoDB, and AWS S3**, improving average data retrieval latency by **~30%** through optimized query patterns.
- Built **10+ RESTful APIs** supporting secure CRUD operations for users and course data, reducing backend-related issues during testing by **~25%**.
- Collaborated with **backend engineers** using Git-based workflows; resolved **10+ merge conflicts** and contributed to faster feature delivery within sprint timelines.

### Software Developer Intern | Intuceo --Remote

- Developed and refined backend services using **FastAPI**, improving API response times by **~20%** through efficient request handling and schema validation.
- Designed and maintained **SQL schemas and queries** to support data processing and reporting pipelines used by analytics teams.
- Integrated backend APIs with internal analytics workflows, ensuring reliable data flow and correctness across services.

### Freelance Frontend Developer | Ashwa Code Labs --Remote

- Built a responsive production website using React and Tailwind CSS, delivering reusable components for student enrollment and dashboard modules.
- Improved user engagement by **~40%** through streamlined UI flows and mobile-friendly design.
- Deployed the frontend on **AWS S3 + CloudFront**, ensuring high availability and low-latency global access.

## Personal Projects

### Deepfake Image Detection - CNN, TensorFlow, Django, React

- Trained a **custom CNN model** on a balanced dataset of **40,000+ real and fake images**, achieving **~90% validation accuracy**
- Integrated the trained model into a **Django REST API**, enabling real-time inference via HTTP endpoints tested using Postman.
- Built a **React-based frontend** allowing users to upload images and view predictions with near real-time response.

### Short Ninja -URL Shortener - Go (Fiber), MongoDB, AWS EC2

- Built a **production-grade URL shortener** handling **5,000+ requests** during load testing while maintaining **<40ms p95 API latency**.
- Engineered a **collision-resistant short-key generation system** using **SHA-256 + salting**, with **zero observed collisions across 10,000+ URLs** in testing
- Deployed and monitored the system on **AWS EC2**, ensuring stability and consistent performance under concurrent traffic.

### Connect – Social Media Platform (Backend) -Express, MongoDB

- Designed a conversation-based chat backend using Node.js, Express.js, MongoDB **implementing Chatrooms, Messages, and JWT-based authentication**, which optimized indexing for scalable message retrieval.
- Implemented a **graph-based user matchmaking** system by modeling **users as nodes** and shared **interests/keywords as edges**, enabling intelligent chat room recommendations using graph traversal and similarity scoring.

## Hackathons & Achievements

- **Top 8 Finalist – HAL Hackathon:** Real-time Threat Analysis with Paligemma-LLM + YOLOv8.
- **PES CIDE Hackathon:** Deepfake detection (Librosa + TensorFlow + Django), 89% accuracy
- Solved 200+ Data Structures & Algorithms problems on LeetCode, covering arrays, linked lists, trees, graphs, hash maps, binary search, recursion, and sliding window techniques, focusing on optimal time and space complexity.