

Arpit Sarang

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PROFESSIONAL SUMMARY

Full-stack Developer specializing in the MERN stack, TypeScript, and MySQL. Skilled in backend architecture with additional exposure to Golang and Python (Django). Currently architecting open-source solutions for web development workflows.

EDUCATION

Bachelor of Technology (AI ML)	2024 - 2028
Newton School of Technology, Ajeenkya DY Patil University - Pune	Grade: 7.86/10.0
Intermediate (Class XII)	2021 - 2023
Rajkamal Saraswati Vidya Mandir	Grade: 83.0%
Matriculation (Class X)	2016 - 2021
Rajkamal Saraswati Vidya Mandir	Grade: 90.4%

INTERNSHIPS

Team Lead	May 2025 - July 2025
NST-SDC	<i>Virtual</i>

- Designed and developed a full-scale real-time **Anonymous Q-A platform** from scratch.
- Implemented **room-based chats** with live messaging using Socket.IO.
- Built interactive features including **polls, reactions, and moderation tools**.
- Ensured **identity-free anonymous communication** with persistent state handling.
- Used **React.js, Supabase, Express, and Socket.IO** to deliver a fast and scalable system.

PROJECTS

Recoil (Github) (Demo)	December 2025
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- Built **Recoil**, a tactical system utility using **Tauri v2 (Rust)** and **React**, enabling instant identification and termination of processes occupying specific network ports
- Implemented **live TCP port monitoring** to scan and display active listeners in real time
- Designed a one-click “**Sniper Button**” to immediately terminate processes by **PID**
- Developed **smart search filtering** by process name (e.g., node, python), PID, and port number for rapid debugging
- Integrated **real-time CPU and memory telemetry** using system-level APIs
- Engineered a **dark-mode, developer-focused UI** optimized for speed, clarity, and low distraction
- Built a **cross-platform core in Rust** for high performance and system stability (currently optimized for **macOS**)

CodeMaverick-Fine-tuning (Github) (Demo)	November 2025
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- Fine-tuned a **large language model on Kaggle** using Hugging Face with **PEFT / QLoRA**.
- Performed full **data preprocessing, tokenization, and training pipeline setup**.
- Applied **4-bit quantization** to reduce model size and improve inference efficiency.
- Evaluated model performance and exported a **lightweight, task-optimized LLM**.
- Delivered a model ready for **fast, low-cost, production-grade inference**.

Maverick-cli (Github) (Demo)	November 2025
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- Built an **AI-powered intelligent CLI tool** with a full-stack architecture.
- Implemented a **Next.js frontend** and an **Express backend**.
- Used **Prisma ORM** for structured database management.
- Integrated **better-auth** for secure authentication and session handling.

- Designed the system for fast, developer-friendly, command-line workflows.

Golang-Student-RestAPI ([Github](#)) ([Demo](#))

September 2025

- Built a **RESTful Student Management API** using **Go and SQLite**, implementing core CRUD operations.
- Implemented **YAML + environment-based configuration**, request validation, and **structured logging** for production-ready backend behavior.
- Designed clean HTTP handlers using Go's **standard net/http stack**, following scalable backend practices.

CERTIFICATIONS

AI Engineer Coursera ([Link](#))

April 2025

- This structured learning path guides from the fundamentals to practical helping you confidently step into the world of AI.

AI For Everyone DeepLearning.AI ([Link](#))

March 2025

- This is the course designed to make you better at using AI—helping you learn smarter prompts, build automation skills

Introduction to Engineering Mechanics Georgia Institute of Technology ([Link](#))

February 2025

- This course is an introduction to learning and applying the principles required to solve engineering mechanics problems.

How Things Work: An Introduction to Physics University of Virginia ([Link](#))

January 2025

- An introduction to physics , the lens of everyday objects, exploring how fundamental principles like motion, energy, forces

SKILLS

Computer Languages: TypeScript, JavaScript, Python, SQL

Data Tools: PostgreSQL, NumPy

Software Packages: Pandas, Matplotlib, Figma, Tailwind, Next.js, Linux, React Native, Prisma ORM, React, Redux, Django, Node.js, Bootstrap, Express JS, MySQL, MongoDB

Additional Courses: Data Structure

Others: Git and Github, Docker, LangChain, Go, Rust, Google Cloud Platform, GitHub Actions, Supabase

EXTRA-CURRICULAR ACTIVITIES

- Led and organized the **Nirmaan Dev-Event** at Newton School of Technology, owning planning, coordination, logistics, and end-to-end execution.
- Actively contributed to **NST Student Developer Club** projects through cross-team collaboration and peer-to-peer upskilling.
- Achieved a **1.2K+ CodeChef rating** via consistent competitive programming and algorithmic problem solving.
- Built a **real-time anonymous Q & A platform** with rooms, live polls, reactions, moderation tools, and identity-free interaction.
- Maintained **1,500+ GitHub contributions**, continuously shipping features, fixing bugs, and iterating on open-source and personal projects.
- Built and experimented across **Web, Mobile, DevOps, AI, and Cybersecurity**, applying concepts in real-world projects.