

Aniruddha Rane

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EDUCATION

Pune Institute of Computer Technology

Bachelor of Information Technology, CGPA: 8.05

Nov 2022 – June 2026

Pune, Maharashtra

Arihant College of Arts, Commerce & Science

Higher Secondary Certificate (HSC) – 91.67%

June 2019 – May 2021

Pune, Maharashtra

Jawahar Navodaya Vidyalaya Saputara

Central Board of Secondary Education (CBSE) – 91.8%

March 2019

Saputara, Gujarat

TECHNICAL SKILLS

Languages: C++, JavaScript, Python, SQL

Frameworks/Libraries: Node.js, Express.js, React.js, REST APIs, JWT, Redis

Databases: MongoDB, PostgreSQL, Supabase

AI & Backend: RAG Pipelines, Prompt Engineering

Tools: Git, GitHub, Docker, Postman, VS Code

Coursework: DBMS, Operating Systems, Data Structures & Algorithms, Object Oriented Programming

PROJECTS

Safety Sentinel System (SafetyHer) | *React.js, Supabase, PostgreSQL, JWT, RAG*

- Built an **AI-assisted** safety incident reporting platform that lets users submit reports through a **conversational interface** and store them securely in real time.
- Developed the backend flow using **Supabase** and **PostgreSQL** to manage incident data, authentication, and live updates for an authority dashboard.
- Integrated a **RAG pipeline** to fetch context from previous incident reports and help generate more structured summaries.
- Implemented secure reporting with **JWT-based authentication** and **database-level access control** for protected incident handling.

CampusGram | *Node.js, Express.js, Socket.io, Multer, Sharp, JWT*

- Designed and built a **multi-role backend** for students, teachers, and admins with **JWT authentication**, **bcrypt password hashing**, and role-based access control on private routes.
- Implemented **real-time messaging** using **Socket.io**, including online presence tracking, typing indicators, read receipts, and message delivery across multiple tabs.
- Built a placement portal where only **eligible students** receive notifications and can view company listings, with validation based on branch, CGPA, and year.
- Handled file uploads with **Multer** and **Sharp**, with images automatically compressed and resized before being served through static middleware.

Vines – Video Sharing Platform | *Node.js, Express.js, Redis, MongoDB, Cloudinary, JWT*

- Improved the video feed API by adding **Redis Caching**, which reduced database load and improve response time.
- Built custom **JWT middleware** to protect private endpoints and manage stateless user authentication.
- Integrated **Cloudinary** to handle high-volume video and image uploads with automated cleanup logic.
- Modeled the data using **MongoDB references** to support nested comments, channel subscriptions, and related social features.

ACHIEVEMENTS

City Topper, Technothon 2018 (IIT Guwahati) – Ranked 1st in city; qualified for finals at Techniche.

Contributor, GirlScript Summer of Code 2025 – Selected for national open-source program.

CLUBS AND SOCIAL ACTIVITY

PICT IEEE Club Member

- Coordinated and led the Treasure Event for the PICT IEEE club.
- Led a team of volunteers to deliver a successful event that attracted over 100 attendees.
- Managed planning and on-site operations for the event.