

# SOHAM AGAWANE

Pune, India

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## EDUCATION

### PES Modern College of Engineering

*B.E in Artificial Intelligence and Machine Learning (7.3 CGPA)*

2025

Pune

### Vidya Pratisthan's English Medium School, Baramati

*Class 12, CBSE*

2021

Baramati

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, C++, Solidity

**Technologies/Frameworks:** Tailwind CSS, React.js, Node.js, Express.js

**Databases:** MongoDB, MySQL

**Developer Tools:** Git, Docker, AWS, Postman, GitHub Actions

## EXPERIENCE

### PES Modern College of Engineering

Dec 2023 - Feb 2024

*Role - Technical Intern*

Pune, India

- Implemented upvoting, nested comments (5+ levels deep), and real-time engagement using WebSocket, enabling 50+ concurrent simulated users to interact seamlessly during testing.
- Architected 15+ secure RESTful APIs (Node.js, Express, MongoDB) with JWT auth, RBAC (3 roles), and bcrypt; achieved 100% test coverage using Jest.
- Built a high-performance React frontend (90%+ Lighthouse score), reduced load time by 70% via code splitting and AWS S3-based media optimization.
- Improved MongoDB performance by 75% using compound indexes and denormalization; scaled backend for 10,000+ simulated posts during stress testing.

## PROJECTS

### HireHub – Job Bidding Platform [↗](#)

Jun 2025 - Jul 2025

- Developed a secure, scalable RESTful API using Node.js, Express, and MongoDB with JWT auth and role-based access control (Employer, Freelancer, Admin).
- Built core backend features for job posting, bidding system, and admin moderation with Cloudinary integration for resume/image uploads.
- Structured modular code with robust error handling and middleware; ensured clean route management and high performance under load.

### Blockchain-Based Crowdfunding Application [↗](#)

Oct 2024 - Mar 2025

- Engineered a decentralized crowdfunding platform using the MERN stack integrated with Ethereum blockchain, reducing transaction costs by 15% via gas optimization and achieving 2-second block confirmation times during testing.
- Integrated Web3.js and MetaMask for seamless wallet authentication, reducing user onboarding time by 40% and supporting 50+ test transactions with zero security breaches.
- Built a real-time tracking system providing campaign details, contributor insights, and funding status updates.

### Second Brain Application [↗](#)

Jan 2025 - Feb 2025

- Engineered a scalable RESTful API using TypeScript to streamline user authentication, content creation, and educational data operations, enhancing platform efficiency and functionality.
- Implemented robust JWT-based authentication and role-based access control (RBAC) to ensure secure user registration, login, and profile management.
- Optimized data workflows with MongoDB, enabling high-performance CRUD operations and seamless content sharing and interaction.

## EXTRACURRICULAR

- Secured 6th place in Prod-E-G Hackathon.
- Contributed to various open-source repositories on GitHub.

## CERTIFICATIONS

- Algorithms by Stanford University
- The Complete Full-Stack Web Development Course

Coursera  
Udemy