Pratham Shah

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SUMMARY

Computer Science student with hands-on experience in MERN stack, Node.js, AWS, and AI/ML integration. Eager to apply backend and distributed systems knowledge to solve real-world challenges.

EDUCATION

MIT, Art, Design and Technology	Pune, Maharashtra
Currently in 3rd year B-Tech Computer Science (Artificial Intelligence and Analytics)	*Aug 2022 – Jun 2026*
Pace Junior Science College Andheri	Mumbai, Maharashtra
Completed 11th & 12th Science	*July 2019 – August 2021*
Vapi Public School	Vapi, Gujarat
Completed 1st to 10th Grade	*Jun 2010 – May 2019*

TECHNICAL SKILLS

Languages: Java, C/C++, Python, JavaScript, SQL

Frameworks: React, Node.js, Express, Next.js, TailwindCSS, GSAP

Cloud: AWS (EC2, S3, Lambda, VPC), Deployment, IAM, Cost Management

DevOps Tools: Git, Docker, Vercel, CI/CD

Databases: MongoDB, SQL

Other: Problem-solving (DSA), Algorithms, Object-Oriented Design, Distributed Systems

PROJECTS

GeekdForGeeks Student Club Website
Next.js, TailwindCSS, React   January 2025 – July 2025
- **Live Project Link:** https://www.gfgmitadt.in/
- Contributed to building a platform for club events.
- Engineered a Next.js-based GeeksforGeeks (GFG) College Website, integrating 50+ curated academic topics with official GFG resources, achieving a 30% faster page load speed and optimized SEO.

Canteen Management System
NextJs, React, Tailwind CSS   May 2025 – July 2025
- Built a full-stack food ordering system for two college canteens with secure role-based access for 300+ students and canteen staff managers using React and Node.js.

Security Surveillance System (IoT + Computer Vision)
Python, Arduino (C++), OpenCV, TensorFlow, Keras   Mar 2025 – Jul 2025
- Engineered an intelligent surveillance system by integrating **facial recognition**, **ultrasonic sensing**, and **email alerts** to enhance real-time security.
- Trained a **Siamese neural network** for high-accuracy facial verification using TensorFlow/Keras.
- Programmed motion detection to trigger image capture and dispatch alerts instantly via SMTP.
- Utilized OpenCV with Haar Cascades for face and eye detection and embedded OLED feedback and emergency stop mechanism for on-site response control.

CERTIFICATIONS AND COURSES

AWS Academy Cloud Foundations — Gained knowledge of AWS compute, storage, networking, IAM, and cloud security, billing, and deployment best practices.

IBM Machine Learning Professional Certificate — Gained expertise in supervised/unsupervised learning, regression, clustering, and model evaluation techniques.

Google AI Essentials — Mastered AI fundamentals, responsible AI principles, real-world AI applications, and advanced prompting strategies.

Google Project Management — Learned project management principles including initiation, planning, execution, Agile/Scrum methodology, and stakeholder communication.

IBM Full Stack Software Developer — JavaScript, Git, React, Node.js, Express, Docker, Kubernetes, Flask, Django, Microservices.

Forage Accenture Software Engineering Job Simulation — AGILE, Analysis, SSDLC, Waterfall, Debugging .

Additional Information

Strong foundation in Computer Science fundamentals, including algorithms, data structures, object-oriented design, and complexity analysis.

Proven ability to handle ambiguous and undefined problems, and to create scalable, fault-tolerant solutions.

Demonstrated excellent problem-solving skills in hackathons and coding challenges, with a deep understanding of distributed systems and multi-tiered applications.