

ATUL PAL

📍 Delhi, India

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Profile Summary

B.Tech student at NSUT with strong problem-solving skills (300+ DSA problems) and experience in designing and deploying backend systems using Node.js and AWS. Proficient in C++ and full-stack development with focus on reliability, clean architecture, and performance. Interested in building scalable distributed systems.

Experience

SDE Intern

Remote - ([Certifications](#))*EliteTech*

Mar 2025 – Apr 2025

- Engineered backend services and UI components using Node.js, React, and MongoDB, focusing on clean architecture, reliable APIs, and security best practices.
- Enhanced system performance by profiling slow endpoints, refactoring code, and optimizing database operations.
- Deployed and maintained applications on AWS, troubleshooting runtime errors and ensuring consistent uptime across environments.

Projects

SkinAI - Deep Learning-Based Skin Disease Detection.

([GitHub](#)) ([Demo](#))

Tech Stack - Python, Keras, NumPy, Pandas, CNN Architecture, Flask, Render

- Built an AI-driven web application using supervised learning and CNN models to classify skin diseases from medical images; achieved 92% accuracy and 0.89 F1-score.
- Integrated the ML model with a responsive web interface for real-time image diagnosis and doctor consultation booking.
- Deployed full-stack system with secure API endpoints and smooth end-to-end workflow for medical image processing.

TalentBoard - A Job Portal application

([GitHub](#)) ([Demo](#))

Tech Stack - Node.js, Express, MongoDB, JWT, RBAC, Redis, Nginx, React, AWS EC2, S3, CloudFront, PM2

- Built a recruiter-applicant job portal with JWT auth, RBAC, modular routing, and service-layer architecture for scalability.
- Delivered a production-grade AWS architecture using EC2 (Node + PM2), Nginx reverse proxy, and S3 + CloudFront for fast static delivery, achieving a stable and scalable deployment setup.
- Improved backend performance with Redis caching (200ms → 15ms), rate limiting, and optimized compound indexes for ~92% faster APIs.

Skills

Languages & CS Fundamentals: C++, JavaScript, OS, DBMS, CN, OOP**Development:** Node.js, Express.js, REST API Design, Caching, Redis, Authentication, JWT, API Security, Nginx, GraphQL**Databases:** MongoDB, MySQL, Supabase**Cloud & Tools:** AWS (EC2, S3, Elastic Beanstalk, Cloudfront), CI/CD, Docker, GitHub

Education

Netaji Subhas University of Technology

Delhi, India

B Tech in Electronics and Communication

Sept 2022 – present

Extracurricular Activities

- Shared technical write-ups and project breakdowns on LinkedIn and student forums, helping peers understand full-stack and ML concepts.
- Active on LeetCode and Codeforces with 300+ solved problems, improving algorithmic and problem-solving skills.
- Completed multiple [Coursera certifications](#) in software development, cloud, and emerging technologies.