ANUPREET DALVI

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PROFILE

As an innovative B-Tech student, I leverage full-stack development, cybersecurity, and distributed system design expertise to engineer secure, scalable digital solutions driven by advanced algorithms and optimization techniques.

INTERNSHIPS

Goldman Sachs – Virtual Software Engineering Internship (Forage) | *February 2025*

- Analyzed a leaked password database using Hashcat in a cybersecurity simulation.
- Identified MD5 vulnerabilities and recommended secure alternatives (bcrypt, scrypt, Argon2) with enhanced password policies.
- Authored detailed security reports and collaborated with cybersecurity experts.
- Developed robust technical and analytical skills in cybersecurity and distributed systems.

Deltin India Tech Private Limited | Karad, MH | *Jun 2024 - Aug 2024*

- Designed and implemented user-friendly interfaces using *React.js, HTML, CSS, and JavaScript.*
- Enhanced system scalability and added new features to existing platforms.
- Utilized *Git and GitHub* for efficient source code management.

PROJECTS

InstaPrint – Online Printing Service with Hardware Integration| LINK

Technologies: React, React Router, Tailwind CSS, PDF.js, QR Code Generator, Razorpay, Raspberry Pi, Axios

- Automated document processing and integrated secure payment verification.
- Reduced printing process time by approximately 35% and increased daily throughput by 30%.
- Streamlined communication between Raspberry Pi kiosks and backend servers to enhance operational efficiency.
- Delivered a scalable solution that increased vendor profit margins by 20%.

Diary App – AI-Powered Secure Online Journal

Tools & Technologies: React, Redux, Spring Boot, Spring Security, MongoDB Atlas, JWT, Kafka, OAuth2 (Google Login), Machine Learning (TextRank), JUnit, Mockito

- Implemented *Google OAuth2 Authentication* using *Spring Security* and *JWT-based authorization*.
- Developed a full-stack *CRUD system* for writing, editing, and managing journal entries.
- Integrated *TextRank algorithm* to generate *AI-powered weekly summaries*.
- Implemented *Kafka-based event processing* for real-time notifications.
- Used *JUnit and Mockito* for unit and integration testing.

Timetable Scheduler for College

Tools & Technologies: React.js, Spring Boot

- Automated *conflict-free scheduling algorithms* for efficient faculty and classroom allocation.
- Reduced scheduling errors and streamlined administrative tasks.

Dynamic Pathfinding Visualizer

Tools & Technologies: React.js, JavaScript

- Built a real-time visualization tool for algorithms like *A, Dijkstra, and BFS*.
- Enabled interactive *graph traversal visualization* for better understanding of pathfinding algorithms.

SKILLS

- **Programming Languages:** Java (Java 8+), JavaScript, PHP.
- **Distributed Systems:** Kafka, RESTful APIs, Microservices Architecture.
- **Algorithms & Optimization:** Graph Algorithms (A*, Dijkstra, BFS), Linear Programming, Nonlinear Optimization.
- **Databases:** Relational (MySQL, PostgreSQL), NoSQL (MongoDB Atlas).
- **Frontend:** React.js, Redux, HTML, CSS, Tailwind CSS.
- **Backend:** Spring Boot, PHP.
- **Testing & Tools:** JUnit, Mockito, Postman, Git, GitHub.
- **Cloud & DevOps:** Appwrite, LINUX

EDUCATION

Government College of Engineering, Karad, India

B.Tech in Electronics and Telecommunication | *Graduating June 2026*

ACHIEVEMENTS

- Successfully led and **organized** GCEK Hackathon, impacting *100+ participants*.
- Developed and deployed multiple production-grade full-stack applications.
- Solved **300+** LeetCode problems with rating **1450+**.