ANKIT BHALKE

Software Development Engineer (SDE) | Payments & Systems Architecture

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PROFESSIONAL SUMMARY

Software Engineer with hands-on experience in full-stack architecture, high-concurrency microservices, data processing pipelines, and secure transaction systems. Proficient in Java, C, TypeScript, React, Next.js, and PostgreSQL with strong foundations in Data Structures & Algorithms (DSA) and system scalability. Proven track record in optimizing backend query performance, writing clean modular code, and delivering fault-tolerant, scalable web applications.

EDUCATION

Physics Wallah Institute of Innovation & Medhavi Skills University Graduation: 2029

Bachelor of Technology (B.Tech) in Computer Science & Engineering

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems, Computer Networks, Linear Algebra, Web Engineering.

TECHNICAL SKILLS

Languages: Java, C, C++, JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3

Frameworks & Tools: React.js, Next.js, Node.js, Express, PostgreSQL, Firebase, RESTful APIs, Git, GitHub, Vercel, Microservices, CI/CD

Core Concepts: Data Structures & Algorithms (DSA), System Architecture, Object-Oriented Design (OOD), End-to-End Encryption (E2EE), Code Reviews, Triage & Debugging

TECHNICAL EXPERIENCE

PW LeapX — **Full Stack Developer Intern** May 2026 – Present

- Architect component-driven frontend interfaces using Next.js, React, and TypeScript to streamline application workflows and state management.
- Optimize RESTful API responses and web application render pipelines, reducing end-to-end page load times by **35%**.
- Engineer backend integration points and maintain reliable data synchronization across serverless microservices.
- Perform rigorous peer code reviews and issue debugging to ensure strict adherence to style guidelines, testability, and system efficiency.

Scaler (YIIC 4.0 Program) — **AI & Web Engineering Intern** June 2025 – August 2025

- Developed and integrated practical AI features into full-stack web workflows using modern JavaScript frameworks.
- Collaborated in agile software engineering teams to solve complex algorithmic challenges, leading to Oracle Cloud Infrastructure certification.

Deloitte Australia — **Cyber Security Simulation Participant** September 2025 – November 2025

- Analyzed high-volume web activity and server logs to identify suspicious user patterns and triage security breaches.

SOFTWARE ENGINEERING PROJECTS

Student Leaderboard Platform — **Full-Stack Platform Engineer** Project

- Engineered a full-stack web application tracking real-time attendance and performance metrics for **1,000+ students across 4 locations**.
- Migrated database infrastructure from Firebase to PostgreSQL/Vercel, optimizing complex queries to significantly improve execution speed under heavy concurrent traffic.

Eduspear — **Secure Educational Networking Platform** Project

- Built a responsive frontend web client using modular React design patterns for real-time peer communication.
- Implemented End-to-End Encryption (E2EE) to guarantee data privacy and secure user authentication flows.

Educational Voting Simulation Prototype — **Systems Developer** Project

- Implemented cryptographic data hashing and EVM-style interaction logic to simulate tamper-proof data validation.

LEADERSHIP & CAMPUS IMPACT

Academic Student Council Head — **PW Institute of Innovation** Sep 2025 – Present

ROBOTICS Club President — **PW Institute of Innovation** Nov 2025 – Nov 2026

- Led hardware engineering projects and prototyped microcontroller systems using Arduino and HC-05 Bluetooth modules.

Lead Event Coordinator — **RIFT '26 Hackathon** Jan 2026 – Feb 2026

CERTIFICATIONS & HONORS

- **Oracle:** Cloud Infrastructure 2025 Certified AI Foundations Associate (Feb 2026)
- **IBM:** Project Based Learning – Front-End & Full-Stack Development (May 2026)
- **Techfest IIT Bombay:** Web Development Workshop Certification

LANGUAGES

English (Fluent) | **Hindi** (Fluent) | **Kannada** (Native) | **Marathi** (Intermediate)