

# AYUSH PANDEY

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## PROFESSIONAL SUMMARY

Frontend and Full-Stack Developer skilled in React.js, Next.js, Node.js, TypeScript, Firebase, and RESTful APIs. Experienced in building scalable web applications, real-time systems, and authentication-based platforms. Strong foundation in Data Structures, Algorithms, and Software Engineering principles with hands-on experience delivering responsive, high-performance applications.

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, TypeScript, Python, C++, SQL, Rust  
**Frontend Development:** React.js, Next.js, Redux, HTML5, CSS3, Tailwind CSS  
**Backend Development:** Node.js, Express.js, REST APIs, Firebase  
**Databases:** MySQL, PostgreSQL, MongoDB  
**Developer Tools:** Git, GitHub, VS Code, Postman, Tauri, CI/CD, Deployment  
**Core Concepts:** Data Structures & Algorithms, Object-Oriented Programming, Software Development Life Cycle (SDLC), Authentication & Authorization, State Management, Database Design, Responsive Web Design, Performance Optimization, Agile Development

## PROJECTS

- Verbo — Real-Time Chat Application** | *React.js, Node.js, Firebase* | **GitHub** Jan 2025 – Jun 2025
- Developed a full-stack real-time chat application using React.js, Node.js, and Firebase supporting instant messaging and live synchronization.
  - Implemented Firebase Authentication and secure session management for protected user access.
  - Integrated RESTful APIs and optimized backend communication workflows for efficient message delivery.
  - Designed responsive user interfaces ensuring seamless functionality across desktop and mobile devices.
- CodeQuest — Coding Platform** | *React.js, Node.js, MongoDB* | **GitHub** Jan 2026 – May 2026
- Built a full-stack coding platform enabling users to solve programming challenges and monitor learning progress.
  - Implemented user authentication, leaderboard functionality, and problem-tracking mechanisms.
  - Developed reusable React.js and Tailwind CSS components to improve scalability and maintainability.
  - Integrated Node.js backend APIs with MongoDB for efficient data storage and code submission management.
- SwiftSpeak — Open-Source Dictation Utility** | *React.js, Tauri, Rust* | **GitHub** Feb 2026 – Apr 2026
- Developed an open-source desktop dictation utility using Rust, Tauri, and React.js for Windows environments.
  - Integrated speech recognition and NLP-powered transcription workflows for real-time dictation support.
  - Designed lightweight desktop architecture with lower resource consumption than Electron-based alternatives.
  - Implemented responsive user interfaces and optimized application performance for enhanced usability.

## EDUCATION

**K.R. Mangalam University** May 2026  
*Bachelor of Computer Applications (BCA) — CGPA: 7.8/10*

## CERTIFICATIONS

**Microsoft Certified: Azure Fundamentals** Aug 2024  
*Microsoft*

**Foundation to Machine Learning** Oct 2025  
*Samatrix Consulting Pvt Ltd*

**Data Analysis using Python** Apr 2025  
*Samatrix Consulting Pvt Ltd*

## ACHIEVEMENTS

- Solved 124+ Data Structures and Algorithms problems on LeetCode covering Arrays, Strings, Linked Lists, Trees, Graphs, Dynamic Programming, and Greedy Algorithms.
- Built and deployed multiple full-stack applications using React.js, Node.js, Firebase, MongoDB, PostgreSQL, and REST APIs.
- Strong foundation in Data Structures & Algorithms, Object-Oriented Programming, Software Development Life Cycle (SDLC), debugging, and performance optimization.