

PIYUSH KHATTAR

New Delhi, India

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EDUCATION

Bharati Vidyapeeth's College Of Engineering

Nov. 2022 – June 2026

Bachelor of Technology in Computer Science – GPA: 8.2

New Delhi, India

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks, Distributed Systems

WORK EXPERIENCE

Java Development Intern

Feb. 2025 – Present

Techchefz Digital

Hybrid

- Developed backend **microservices** in Java for a **distributed system**, improving system scalability to handle over **5,000** concurrent users.
- Lowered server resource consumption by **20%** through **efficient memory management** and garbage collection tuning in Java applications.

Software Development Engineer Intern

Aug. 2024 – Jan. 2025

Vibo

On-site

- Designed and implemented new features in a **microservices** architecture, improving system reliability and maintainability by **35%**.
- Integrated secure **authentication** and authorization mechanisms in web applications using **Firebase** Authentication and **Clerk**.

RESEARCH PROJECTS

Blood Group Detection Using Fingerprints | *Python, CNN, LSTM, Transformers*

Sept. 2024 – Present

- Developed a hybrid deep learning model (CNN + LSTM + Transformer) to predict blood groups from fingerprint images with **89% accuracy**.
- Implemented advanced feature extraction and classification pipelines to analyze ridge patterns and unique fingerprint descriptors.

TECHNICAL PROJECTS

Prepwise | *Next.js, TailwindCSS, Firebase, Vapi, Gemini API*

May. 2025 – Jun. 2025

- Developed Prepwise, a web platform for **AI-powered** job interview preparation, using Next.js for both frontend and backend logic, **Firebase** for **authentication and data storage**, TailwindCSS for responsive design, and **Vapi's voice agents** for interactive learning experiences.

CarePulse | *Next.js, TypeScript, Appwrite, Tailwind CSS, Twilio, Sentry*

Jan. 2025

- A healthcare **patient management application** that allows patients to easily register, book, and manage their appointments with doctors, featuring administrative tools for scheduling, confirming, and canceling appointments, along with SMS notifications, all built using **Next.js**.

TECHNICAL SKILLS

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

Web Development: HTML5, CSS3, React.js, Next.js, Node.js, Express.js, MongoDB, REST APIs

Databases: MongoDB, MySQL

Developer Tools: VS Code, GitHub, Linux, Firebase

CERTIFICATIONS

Data Structure And Algorithms: Certified in Data Structures and Algorithms by Coding Blocks, demonstrating proficiency in algorithmic **problem solving** and **core programming concepts**.

Web Development: Certified in Web Development by Coding Blocks, demonstrating **practical skills** in building modern frontend and backend applications using HTML, CSS, JavaScript, Node.js, React.js, and MongoDB.