

Ayush Raj

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EDUCATION

Punjab Technical University

Amritsar, Punjab, India

Bachelor of Technology in Computer Science Engineering

Oct 2022 – Dec 2026

- Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML5, CSS3, SQL, Python

Frontend: React.js, Bootstrap, Responsive Web Design, Modern UI/UX

Backend: Node.js, Express.js, RESTful APIs, MongoDB, Database Design

Tools & Technologies: Git, GitHub, Version Control, Agile Methodology, Chrome DevTools

Core Competencies: Full-Stack Development, Custom Website Development, Rapid Response Development, Problem Solving

PROJECTS

E-Commerce Platform | *React, Node.js, Express, MongoDB, TypeScript*

2024

- Developed a full-stack e-commerce application with user authentication, product catalog, shopping cart, and payment integration
- Implemented RESTful API architecture with Express.js, reducing server response time by 40% through optimized queries
- Built responsive frontend using React and TypeScript with modern UI components, achieving 95+ Lighthouse performance score
- Integrated MongoDB with efficient data modeling for product management, user profiles, and order tracking

Real-Time Chat Application | *Node.js, WebSockets, React, MongoDB*

2024

- Created a real-time messaging platform supporting 1000+ concurrent users with WebSocket technology
- Designed and implemented user authentication system with JWT tokens and secure password encryption
- Developed group chat functionality with message history persistence using MongoDB aggregation pipelines
- Optimized application performance achieving sub-100ms message delivery and 99.9% uptime

Task Management Dashboard | *React, TypeScript, Bootstrap, REST API*

2023

- Built a productivity application with drag-and-drop interface for task organization using React Beautiful DnD
- Implemented TypeScript for type-safe code, reducing runtime errors by 60% during development
- Integrated third-party APIs for calendar synchronization and email notifications with 98% delivery rate
- Designed responsive UI with Bootstrap achieving seamless experience across mobile, tablet, and desktop devices

EXPERIENCE

Freelance Full-Stack Developer

Remote

Custom Website Development

Jan 2023 – Present

- Delivered 15+ custom websites for clients across various industries with 100% client satisfaction rate
- Specialized in rapid response development, completing projects 20% faster than industry average timelines
- Utilized modern tech stack (React, Node.js, MongoDB) to create scalable and maintainable web applications
- Collaborated with clients to gather requirements, provide technical consultation, and ensure project alignment with business goals
- Implemented SEO best practices and performance optimization, improving client website traffic by average of 45%

ACHIEVEMENTS & CERTIFICATIONS

GitHub Contributor: Maintained active GitHub profile with multiple open-source contributions and personal projects

Web Development Excellence: Consistently delivered projects with 95+ performance scores on Google Lighthouse

Technical Problem Solver: Solved 100+ algorithmic challenges on competitive programming platforms

Client Relations: Achieved 5-star rating across all freelance projects for technical expertise and communication