

AAYUSH PANWAR

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Education

VIT Bhopal University

Bachelor of Science in Computer Science — **CGPA: 8.39/10.0**

Expected Graduation: May 2026

Sehore, Madhya Pradesh

- Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, Object-Oriented Programming, Cloud Computing

Work Experience

Pinak Idea Lab Private Limited

November 2024 – January 2025

Web Development Intern

Bhopal, Madhya Pradesh

- Led team of **4 developers** building scalable responsive website using **Eleventy (11ty)** with comprehensive **Markdown** documentation
- Mentored junior developers on **modern web development practices**, conducted weekly code reviews for quality assurance
- Implemented comprehensive **SEO optimization** with **XML sitemaps**, **Schema.org markup**, and **structured data** enhancing search engine visibility

Projects

Microsoft Loop 2.0 | *Source Code*

Next.js | Firebase | Gemini API

- Architected collaborative workspace with **real-time editing** using **Firebase Realtime Database** and **WebSocket** connections
- Engineered **Server-Side Rendering (SSR)** in **Next.js** reducing page load time by **40%** with **Clerk authentication** and **JWT-based security**
- Deployed on **Vercel** with automated **CI/CD pipelines** using **GitHub Actions** for streamlined deployment

PrepAI - Mock Interview Platform | *Source Code*

Next.js | PostgreSQL | Gemini API

- Developed AI-powered interview platform with **webcam/audio recording** using **MediaStream API** and **PostgreSQL** database
- Designed responsive UI using **shadcn/ui** and **Material-UI** achieving **95+ Lighthouse score** with **accessibility compliance (WAI-ARIA)**
- Integrated **Gemini AI API** for dynamic questions across various technical domains with automated feedback using **natural language processing**

Cipher - Real-time Chat Application | *Source Code*

Next.js | Firebase | Clerk | Cloudinary

- Engineered messaging platform with **Firebase Realtime Database** supporting **instant message delivery** and **live typing indicators**
- Integrated **Cloudinary API** for seamless image uploads with **automatic compression** reducing file sizes by **60%** and **CDN optimization**
- Implemented **push notifications** and **Clerk authentication** with secure session handling and **OAuth** integration

Certifications & Achievements

- **Research Publication** - Comparative Analysis of Convolutional Neural Network and Support Vector Machine for Alzheimer's Disease Prediction (**DOI: 10.1007/978-3-031-89760-3_5**, May 2025)
- **NPTEL Cloud Computing** - Completed comprehensive course covering cloud architecture, deployment strategies, and distributed computing fundamentals
- **IBM DevOps and Agile Methodologies** - Certified in modern software development practices, CI/CD pipelines, and collaborative development workflows

Technical Skills

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

Frontend Development: React.js, Next.js, Vue.js, React Native

Backend Development: Node.js, Express.js, PostgreSQL, MongoDB, REST APIs

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Jenkins, CI/CD Pipelines

Developer Tools & Platforms: Git, GitHub, Postman, Webpack, Linux, Nginx