

Battu Chaitanya

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Objective

Fourth-year B.Tech student at IIT Bhilai (Graduating May 2026), aspiring JavaScript Full-Stack Developer with strong expertise in React, Node.js, Express, and database management using MongoDB and PostgreSQL. Skilled in building scalable web applications, designing efficient APIs, and implementing responsive UIs. Passionate about continuous learning, optimizing application performance, and delivering seamless user experiences by integrating modern front-end and back-end technologies.

Education

Indian Institute of Technology Bhilai

Bachelor of Technology in Electrical Engineering (CGPA: 7.33)

Sep 2022 – May 2026 (Expected)

Bhilai, Chhattisgarh

Experience

BasilInfotech

Full Stack Developer Intern – RealEstate Web App

May 2025 – July 2025

(Remote)

- Interned at Basil Infotech, developing a full-stack real estate platform using the MERN stack. Implemented secure authentication, advanced search filters, interactive maps, and contributed to both frontend and backend development, gaining hands-on experience with RESTful APIs and full-stack deployment.

WorldQuant Brain

Quantitative Research Consultant

May 2025 – Sep 2025

(Part-Time, Remote)

- Developed 100+ alphas (quantitative trading models), delivering approximately 10% returns with controlled risk of around 3% drawdowns across global markets.
- Built a comprehensive toolbox to automate the implementation of alpha formulae, consistently achieving a Sharpe ratio above 2.

Projects

DeepFake Video Detection using 3D CNNs | Python

- Developed a deep learning model to detect DeepFake videos using 3D Convolutional Neural Networks. Preprocessed video frames from real and fake datasets, built a classification pipeline with TensorFlow, and optimized training with callbacks. Achieved binary classification of manipulated media using temporal-spatial video features and real-time prediction.

Full Stack Blog Platform – Web App | React, Next.js, PostgreSQL 🐙

- Developed a full-stack blog platform using Next.js 14, React, TypeScript, and Tailwind CSS with a responsive UI. Designed a PostgreSQL database with Prisma to manage 5+ user relationships and 1,000+ posts. Implemented secure authentication via Clerk (OAuth and email/password) and role-based CRUD operations for blog posts. Deployed on Vercel with CI/CD automation, reducing manual deployment time by 70%. Technologies used include Next.js 14, React, TypeScript, Tailwind CSS, Prisma, PostgreSQL, Clerk, and Vercel.

Exam Platform | HTML, CSS, JavaScript, Node.js, MySQL, Python 🐙

- Built an intelligent online exam platform using React (TypeScript) and Python (OpenCV). Implemented real-time face detection, gaze tracking, head pose estimation, and device detection to prevent cheating. Integrated computer vision and ML to ensure academic integrity during assessments. Designed a secure, modern UI for institutions to conduct reliable online exams with automated proctoring.

Technical Skills

Languages: C, C++, JavaScript, TypeScript

Markup/Styling: HTML, CSS, Tailwind CSS

Technologies/Frameworks: Next.js, React, Express, FastAPI

Developer Tools / DevOps: Git, GitHub, VS Code, Postman, Docker, Kubernetes

Cloud/Databases: AWS, PostgreSQL, MongoDB, MySQL

Coursework: Web Development, Data Structures and Algorithms, Operating Systems, Compiler Design, ML, NLP

Areas of Interest: Web Development

Achievements

- Qualified for JEE ADVANCED (2022)
- Achieved Gold ranking in WorldQuant Challenge with a global rank of 4,008

Social Engagements

DesignX Member – Contributed to UI/UX initiatives, creating wireframes, prototypes, and user flows for web and mobile projects.

Space Exploration Society Member – Participated in projects and discussions on space technology and innovations.

Pixel Snappers Core Member – As a core member, I shot and edited 30+ pictures featured on the club's Instagram and submitted edited photos for the Inter IIT Cultural Meet 5.0.

Sports – Active in badminton, cricket, football, volleyball, and chess.