



Sachin Zade
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EDUCATION

- National Institute of Technology, Raipur 2022–2026
B.Tech in Biotechnology CPI: 7.35 (Till 6th Sem, 2025)
- Jawahar Navodaya Vidyalaya, Gondia 2020
Class XII, CBSE Percentage: 88.6%

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, Shell
Web Development: Node.js, Express.js, React.js, HTML, CSS, Vercel, Render
Databases: MySQL, PostgreSQL, MongoDB
Version Control: Git, GitHub
Tools & Frameworks: Bash, Vim, Linux, REST APIs, Chrome Extension APIs, Mongoose
Operating Systems: Windows, Linux (Ubuntu)

PROJECTS

- Tinylink – GitHub Link 2025
A simple and scalable URL shortener built with Node.js.
 - Developed RESTful APIs using Node.js and Express.js for generating short and custom URLs.
 - Integrated MongoDB (Mongoose) for database management and deployed the app on Vercel.
 - Implemented validation, error handling, and analytics to enhance user reliability.
- GitTree – GitHub Link 2024
A web tool to visualize and export the structure of any public GitHub repository.
 - Fetched and parsed data using the GitHub REST API to dynamically render interactive repository trees.
 - Built Markdown export and copy-to-clipboard functionality for seamless developer usage.
- ZGPT – GitHub Link 2025
A lightweight command-line AI assistant powered by the Google Gemini API.
 - Published as a Python package installable via pip (‘pip install zgpt’) for quick CLI usage.
 - Implemented API-based natural language responses using the Google Gemini API.
 - Enabled seamless command-line prompts such as “zgpt what is the distance between moon and earth”.

EXPERIENCE

- Pandit Ravishankar Shukla University (PRSU) June 2025 – August 2025 Raipur
Research Internship – Bioinformatics & Data Automation
 - Developed Python-based automation scripts to streamline bioinformatics workflows and data preprocessing.
 - Applied Pandas, NumPy, and Matplotlib for biological data cleaning and visualization.
 - Built a prototype tool that reduced manual analysis time by nearly 40%.
 - Collaborated with research teams to integrate data automation into ongoing research pipelines.
- Water Treatment Plant June 2024 – July 2024 Bhatagaon, Raipur
Summer Internship
 - Automated daily data collection using Python scripts and improved reporting efficiency by 30%.
 - Created dashboards and analyzed performance metrics using Excel and Python-based visualization.
 - Learned fundamentals of process automation, real-time monitoring, and data analytics.

POSITIONS OF RESPONSIBILITY

- Vice PresidentBiotechnology Students Association (BITSA) – NIT Raipur May 2024 – Present
- Head CoordinatorShaurya Sports Committee, NIT Raipur 2024 – Present

ACHIEVEMENTS

- Rajya Puraskar Award The Bharat Scouts & Guides Aug 2017
- Vice Captain Jawahar Navodaya Vidyalaya, Gondia 2020

INTERESTS / HOBBIES

Tinkering with Android custom ROMs | Tech Podcasts | Competitive Coding | Badminton | Cricket