

VARNIKUMAR PATEL

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Education

VIT Bhopal University

August 2023 – Present

B.Tech in Computer Science & Engineering (Artificial Intelligence and Machine Learning)

8.2/10 CGPA

- **Coursework:** Machine Learning, Artificial Intelligence, Deep Learning, Data Structures and Algorithms

Work Experience

AlgoUniversity (backed by Y-Combinator)

May 2025 – Present

Software Development Extern

Remote

- Developed an online judge platform using the **MERN stack** — **React.js** for UI, **Node.js/Express.js** for backend, and **MongoDB** for data management — allowing users to **submit** and **evaluate code solutions**.
- Built a secure and responsive interface using **React.js**, enhancing user experience and engagement.
- Engineered robust backend services with **Node.js & Express.js** for user authentication, problem submission, and evaluation.
- Integrated a sandboxed **code compiler** to safely compile and run user-submitted code in an isolated environment.
- Received mentorship from senior engineers at **Google London, Apple, Bytedance, and Alphagrep Singapore**, gaining real-world software development and scalability experience.

Mittal Alliance Industries Private Limited

May 2025 – Present

Web Developer Intern

Remote

- Contributed to the front-end development of a modern web application using **React.js** and **Tailwind CSS**, ensuring clean and responsive UI designs.
- Implemented **advanced animation modules** to enhance interactivity and create visually engaging user experiences.
- Collaborated with the design team to convert high-fidelity prototypes into functional, mobile-responsive layouts.
- Optimized performance by refactoring reusable components, reducing re-renders, and improving overall load speed.

Projects

PlacementPrep – Placement Preparation Platform

[Live Here](#)

- Developed a full-stack platform for structured placement prep featuring **coding Que.**, **notes**, and **aptitude quizzes**.
- Built an interactive dashboard offering **resume templates**, **career roadmaps**, and **interview Qs** for guidance.
- Integrated **Firebase-based login/signup**, and dynamic content delivery for personalized learning paths.
- Designed a responsive and modern UI using **Tailwind CSS**, ensuring smooth navigation and seamless user experience.
- Utilized **React.js, Node.js, Express.js**, and **MongoDB Atlas** to build a scalable and secure backend system.

Technical Skills

Languages: Python, Java, C++, JavaScript

Frontend/Backend: React.js, Tailwind CSS, Node.js, Express.js, HTML, CSS, Bootstrap

Cloud & Tools: AWS, Firebase, MongoDB, MySQL, Docker, Git, GitHub, Postman, VS Code

ML & Data Analysis: Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn, Power BI, Excel

Achievements & Leadership

Accelerator Programming Camp

March 2025 – Present

Batch of 2025

AlgoUniversity (backed by Y-Combinator)

- Selected in the top **1.4% out of 40,000** applicants; mentored by senior engineers from **Apple, Google, Grab Singapore**, and **Alphagrep Singapore**.
- Learned to build scalable systems, perform deployments, and gained industry-level development experience.

Event Management Lead

November 2023 – Present

Gujarati Club

VIT Bhopal

- Led cultural events, overseeing logistics, planning, and coordination among 10+ team members.

Placement Cell Member

November 2024

Placement Office

VIT Bhopal

- Assisted in **TCS recruitment** coordination for 300+ students, managing interview logistics and communication.

Algorithmic Competitions/Achievements

- Solved **500+** DSA problems across **LeetCode** and **GFG**, including 160+ Medium/Hard problems, strengthening core problem-solving skills.
- Achieved a **Coding Score of 1012** and secured **Rank 297 at VIT** on GeeksforGeeks with a **103-day max streak** and the **100 Days Badge 2024**.