VARNIKUMAR PATEL

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Education

VIT Bhopal University — **August 2023 – Present**
B.Tech in Computer Science & Engineering (Artificial Intelligence and Machine Learning) — *8.03/10 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 backend services with **Node.js & Express.js** for user auth, 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**, improving mobile responsiveness by **40%** and reducing load time by **30%**.
- Implemented **advanced animations** using Framer Motion and GSAP, increasing user session time by **25%**.
- Collaborated with the design team to convert high-fidelity Figma prototypes into responsive layouts, reducing UI iteration time by **35%**.
- Optimized performance by refactoring components and minimizing re-renders, boosting render speed by **40%**.

Projects

Code2Concept – DSA Learning Platform — Live Here
- Built **Code2Concept** with **MERN**, **React.jsx**, **Tailwind CSS**, and **Gemini API** for **DSA solutions** and **video guides**, achieving **95%** user satisfaction rate.
- Designed **Tailwind CSS** UI for **50% faster** access to **DSA concepts**, **solutions**, and **limits**.
- Integrated **Gemini API** for **multi-solution DSA** outputs and **videos**, cutting learning time by **30%**.
- Created **Node.js**, **Express.js**, **MongoDB** backend with **99.9%** uptime for **DSA content** delivery.

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 – Present**
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**.