Parived Arora

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Education

Vellore Institute of Technology, Bhopal **2022 – 2026**
B.Tech in Computer Science *CGPA: 8.20/10*

Relevant Coursework

- Data Structures and Algorithms
- Object Oriented Programming
- Databases
- Operating Systems
- Computer Networks
- Network Programming
- Discrete Mathematics
- Machine Learning

Experience

Softsnare **Dec 2024 – Jan 2025**
Backend Development Intern *Remote*

- Assisted in backend development using JavaScript for web applications.
- Contributed to building and maintaining a website, improving backend functionality.
- Gained experience in database management, server-side scripting, and API integration.

Projects

RemoteCommandShell-Python | *Python, AWS EC2, Threading, Sockets, Cybersecurity* **June 2025 – July 2025**

- Set up a live server on AWS EC2 to host and run Python applications efficiently.
- Configured Ubuntu, Nginx, and Gunicorn for deploying and managing Python scripts remotely.
- Implemented multi-threading to improve network performance and handle concurrent client requests.
- Built a Python socket programming system with real-time client-server communication using TCP and UDP protocols.
- Developed a reverse shell tool for ethical hacking to demonstrate security vulnerabilities in remote system access.
- Gained hands-on experience in cybersecurity practices, ethical hacking, and secure networking.

Path Finder Web Application | *HTML, CSS, JavaScript, DSA*

- Developed an interactive web application leveraging Dijkstra's algorithm to determine the shortest route between two cities.
- Demonstrated proficiency in pathfinding algorithms and web development through this project.
- Architected an intuitive interface for seamless route visualization and selection, significantly improving user experience.
- Optimized application performance, reducing processing time by over 40% and boosting user satisfaction by over 30%.

Technical Skills

Programming Languages: Python, Java, JavaScript, SQL
Backend: Node.js, Express, React
Frameworks/Technologies: React, Node.js, Express, Next.js, Zod, Tailwind CSS, Ajax
Tools: Git, GitHub, Docker, Vercel, MongoDB, PostgreSQL, AWS

Industry Certified Courses

Udemy
The Complete Full-Stack Web Development by Angela Yu

- Gained comprehensive skills in full-stack development, including HTML, CSS, JavaScript, Node.js, and React.
- Mastered database technologies like MongoDB and SQL, along with deployment and version control using Git and GitHub.

Google — Coursera
The Bits and Bytes of Computer Networking

- Learned fundamentals of modern networking technologies and protocols.
- Gained insight into cloud applications and network troubleshooting techniques.

Vithyarthi
Python Certification

- Learned Python scripting, automation, web scraping, and file handling.
- Gained expertise in Python programming, data structures, and OOP principles.