Vijay Raj Shekhar

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Education

Vellore Institute of Technology   *Sep 2022 – Present*

- Integrated M.Tech in Computer Science and Engineering (Focus: Full-Stack Development, Cloud-Native Systems)
- CGPA: **9.01**

W.H. Smith Memorial School (CISCE)   *Apr 2009 – Jul 2022*

- 10th – **96.2%**, 12th – **90.75%**

Skills

- **Languages:** Java, Python, C, C++, HTML, CSS, JavaScript, TypeScript
- **Databases:** MySQL, MongoDB (NoSQL)
- **Frameworks/Tools:** React, TailwindCSS, Next.js, Flask, Git, Docker, AWS EC2, REST APIs, Microservices, CI/CD, VS Code
- **Courses:** DSA, OS, DBMS, AI, Computer Architecture, Optimization, Discrete Math
- **Additional Keywords:** Agile Methodologies, Debugging, Unit Testing, Problem Solving, Leadership, Responsive Design

Projects

BlockEstate – Real Estate Tokenization   *Solidity, Ethereum, MetaMask*   ⬤

- Enabled tokenized property ownership via ERC-**20** tokens, leveraging smart contract security.
- Reduced avg. investment from $**78,500** to $**2,300** and cut transaction time by **96%**.
- Automated compliance, voting, and payouts with Chainlink-integrated smart contracts, using REST APIs for backend integration.
- Built scalable, user-friendly frontend for seamless investor interactions (Full-Stack).

NeuroDiab – ANN for Diabetes Prediction   *Flask, Keras, Next.JS*   ⬤

- Built AI model with PIMA dataset; achieved **80.52%** accuracy and **0.862** AUC-ROC, showcasing strong problem-solving and data analysis skills.
- Applied preprocessing, model training, ROC, and confusion matrix visualization.
- Tuned hyperparameters using **Keras Tuner** and **GridSearchCV**, demonstrating debugging and optimization.
- Designed responsive web interface for real-time predictions using Flask backend and RESTful APIs.

Portfolio Website   *Next.js, TypeScript, CSS, AWS EC2*   ⬤

- Built a fully responsive, animated website showcasing projects and GitHub previews (Full-Stack, Responsive Design).
- Deployed on **AWS EC2**; reached **200+ unique visits** with robust CI/CD pipeline integration.
- Enhanced UX through smooth navigation, SEO optimization, and LinkedIn integration.
- Used custom domain with HTTPS, integrated unit testing, and implemented secure authentication practices.

Experience

Web Development Intern, Kineton   *Feb 2025 – Present*

- Developed company website using Node.js, TailwindCSS, and Vanilla JS following Agile practices.
- Optimized for low latency, responsiveness, and security through log analysis and unit testing.
- Collaborated with cross-functional teams to address performance issues, emphasizing leadership and debugging skills.

Event Manager, VIT Vellore   *Feb 2023 – Present*

- Managed **80+** venues and **100+** events, demonstrating strong organizational and leadership abilities.
- Coordinated logistics and inter-team communication under tight schedules using agile coordination methods.
- Led onboarding and scheduling for **30+** new volunteers, emphasizing problem-solving and team-building.

Achievements

- Codeforces: ⬈ MaesterWolf – **Specialist**, Max Rating: **1568**, Solved **200+**, **5** Contributions
- College Grades: Featured in **Merit List**