VIVEK KUMAR SONI

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EDUCATION

Aditya College of Eng. & Technology, Andhra Pradesh   **(Expected Apr 2026)**
B.Tech, Computer Science & Eng. (CGPA: **8.3**)
- **Achievements:** Tech Finalist: Hacktoberfest (Open Source Contribution Event) 2023/24 Winner
- **Coursework:** Object-Oriented Design, Algorithm Design, Data Structures, **Problem Solving**, and Complexity Analysis.
- **Coding Profiles:** Leetcode - **350**+ problems solved   GeeksForGeeks - **300**+ problems solved
    HackerRank - **5★** in Problem Solving, C++, Java, Python

EXPERIENCE

Miracle Software System | *Java Full-Stack Intern*   **May 2025 - July 2025**
- Engineered RESTful endpoints with Spring Boot (Eclipse) and integrated with a React frontend via JSON to deliver end-to-end features in a **multi-tiered distributed system**.
- Collaborated in Agile sprints using Git/GitHub and PR reviews; **articulated technical challenges and proposed optimized solutions** to improve API usability for frontend developers.

TechnicalHub | *C language Intern*   **Aug 2024 - Dec 2024**
- Guided **300+ trainees** through C programming syntax, semantics, and debugging logical and syntax errors
- Conducted interactive sessions and provided hands-on assistance to trainees, fostering a deeper understanding
- Assisted in improving lab program success rates by **25%** through structured teaching and coding workshops.

Infosys Springboard | *AIML Intern*   **May 2024 - Jul 2024**
- Developed an **anomaly detection model** on smartphone sensor data using Decision Tree, KNN, achieving **92% accuracy**.
- Enhanced dataset through **feature engineering,** trimming, and capping, improving model performance by **15%**.
- Applied ML techniques to real-world use cases like traffic rule enforcement and crowd surveillance, aligning with **large-scale distributed system use cases**.

TechnicalHub | *Cloud3 with DevOps Intern*   **May 2024 - Jun 2024**
- Deployed a **containerized full-stack web app** on **AWS EC2** using Docker, achieving **99.9% uptime** with **low-latency response handling**
- Configured **CI/CD pipelines** to automate builds and deployments, reducing release cycles by **40%**.
- Implemented **bridge network communication** between frontend and backend containers, ensuring **fault-tolerant and scalable distributed systems**.

SKILLS

- **Languages**: C, C++, Java, Python, SQL
- **Distributed Systems**: MERN stack, Spring Boot, MySQL, AWS (EC2, S3, Docker, Kubernetes), **multi-tiered** architectures
- **Certifications**: Pearson Html and CSS, HackerRank Problem Solving
- **Databases**: MySQL, MongoDB– experience with **distributed storage and query systems**
- **Optimization & Mathematics**: Linear Algebra, **Optimization methods (linear & nonlinear programming basics)**

PROJECTS

NoteBook App (*MERN / BootStrap)* | live_link
- **Distributed note management system** with JWT-based authentication for secure multi-user access.
- Integrated **MongoDB Atlas** for cloud database storage, enabling **real-time scalability** across 100+ active users.
- Deployed app with **agile sprints**, ensuring incremental delivery and reducing deployment time by **30%**.

Car Rental Management System (*Java / Spring Boot / MySQL / REST API / React Js)* | **project_link**
- Designed a **scalable multi-tier system** supporting **admin, company, and customer modules**, reducing booking approval time by **50%**.
- Implemented **REST APIs** with Spring Boot and integrated MySQL with **foreign key constraints** to maintain relational consistency.
- Enabled role-based access and automated approval workflows, supporting **100+ concurrent users** in a fault-tolerant environment

Netflix Recommendation System (*Python / ML)* | **project_link**
- Built an **NLP-based recommendation engine** using **TF-IDF + Cosine Similarity**, improving recommendation accuracy by **35%** while **handling abstract problem definitions and ambiguity** in unstructured text data.
- Preprocessed and optimized a dataset of **5,000+ titles** (stopword removal, text normalization), reducing pipeline runtime by **20%**.