GAURAV YADAV

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Summary

Full Stack Software Developer & AI/ML engineer with experience in **designing scalable applications, API development, and data-driven solutions**. Proficient in **JavaScript (React, Node.js, Express), Python (Django, ML), and database management**. Successfully built **AI-powered models** and contributed to **real-time web applications**. Passionate about **building innovative tech solutions** with a focus on performance, security, and user experience.

Skills

Programming: Python, JavaScript, C++, Java**,** Typescript, HTML, CSS, Tailwind.
Frameworks: React, Node.js, Express.js, Django, Flask, Redux, TensorFlow, Scikit-learn.
Databases: SQL**(**MySQL, PostgreSQL), NOSQL(MongoDB)
Tools: Git, Docker, AWS (EC2, S3, Lambda), RESTful APIs**,** Fast API, Azure, Kubernetes, CI/CD, SAFe
ML/AI: NLP, Computer Vision, Pandas, ML, Jupyter Notebooks
Soft Skills: Project Manager, Leadership, Effective Communication, Problem Solving

Education

Bachelor of Technology, **Computer Science and Engineering** (CGPA: 7.7+)   August 2021- May 2025
Vellore Institute of Technology, Vellore

Work Experience

Python Developer at FIO   March 2025

- Built a **production-grade** intelligent **document processing system** using **FastAPI**, **NLP, Keras** fine tuning **LLM models** to extract structured data from unstructured PDFs and images with over **95% field-level accuracy.**
- Build the **Django Backend** with a **clean Frontend** interface to support real-time uploads and dynamic field extraction
- Automated API workflows using **Flask and Pandas**, cutting manual intervention by 40%.

Full Stack Web Developer Intern at Zetpeak   Nov 2023-Jan 2024

- **Deployed** a fully functional **full-stack website** using **React, Node.js, JavaScript and MySQL**.
- **Refactored reusable website components**, reducing future implementation time by **50%**.
- **Enhanced API performance** by optimizing queries, leading to **30% faster data retrieval**.
- **Collaborated with cross-functional teams** in **Agile** environment to ensure scalable and maintainable code architecture.

Projects

*Inventory & Order Management API (*Node.js, Express, MySQL*).*   *(Link To Repo)*

- Built a **Apache** microservice system to manage inventory and process orders, ensuring **high efficiency** and robust error handling.
- Created a **scalable backend API** for **inventory and order management**, ensuring efficient stock tracking and secure order processing. Designed an agile SAFe project.
- **Implemented CRUD operations** for products and orders with soft deletion, pagination, and concurrency-safe stock updates.
- **Implemented JWT authentication**, ensuring **secure API access** for authorized users.

*Continuous Authentication Using Behavioral Biometrics (*Python, Machine Learning*)*   *(Link To Repo)*

- Implemented a **TensorFlow-based keystroke authentication model** with 92% accuracy, enhancing remote security for enterprise apps. Achieved 92% model accuracy for enhanced security in remote office environments.
- Deployed as a **Flask API** with JWT tokenization; published research paper in progress.
- *Tech Stack:* Python, TensorFlow, Flask, Scikit-learn, AI, ML model.

*Rescue Path (*Full Stack Website*)*   *(Link To Repo)*

- **Tech Stack:** React.js, Node.js, Express.js, MongoDB, Rest API, JavaScript, Docker.
- **Description:** Built a **disaster-response platform** to **locate nearby hospitals** and access emergency contacts.
- **I Employed RESTful API design and containerization for consistent and secure deployments.**

Achievements

- **Leadership:** Captained the team in the **Subroto Cup Final**, showcasing strong team management and strategic leadership.
- **Hackathon Finalist** - Secured 2nd position in **VIT TechnoHack** 2023 among 150+ teams.
- **Organizational Impact:** Served as a Senior Core Member of the **E-Cell Club**, managing initiatives for 1500+ members and driving collaborative success.
- **Professional Certification:** Certified in Beginner Data Analytics by **Google**, reaffirming a commitment to continuous learning and analytical excellence. Working on an **IEEE Research paper** on **GEN AI Domain.**