AAYUSHKER SINGH

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EDUCATION

KIET Group of Institution - AKTU	Ghaziabad, IN
Bachelor of Technology in Computer Science and AI (82.0%)	*Nov 2022 – Present*

- Relevant coursework: Data Structures, Operating system, Web Development, SQL
- Active member of Cyber Peace Center and Kinesis Technical Society.

RLB Memorial School - CBSE	Lucknow, IN
Senior Secondary (Class XII) - Science Stream (93.0%)	*2022*
Lucknow Public School - CBSE	Lucknow, IN
Secondary (Class X) (91.0%)	*2020*

PROJECTS

DevFoolio | *Python, Selenium, Scikit-learn, NLTK, KeyBERT, Pandas, DRF, Next.js, Docker* — Oct 2024 – Present

- Developed an advanced plagiarism detection system, analyzing 200,000+ hackathon submissions to deliver accurate, scalable plagiarism verification and ensure robust system performance.
- Revamped data pipelines using Selenium, achieving a 3x improvement in dataset aggregation speed while implementing seamless error handling and ensuring system resilience.
- Applied advanced NLP techniques with KeyBERT and NLTK for extracting actionable insights, showcasing expertise in natural language processing and large-scale text analysis.

Shhh | *Cryptography, Pillow, Numpy, Django, Next.js, Tailwind CSS, Docker* — Aug 2024 – Present

- Engineered a secure web application for encoding and decoding messages in images, leveraging custom encryption methods to ensure complete data confidentiality and user privacy.
- Implemented robust Least Significant Bit (LSB) manipulation algorithms, achieving compatibility across multiple image formats and reducing computational overhead for improved performance.
- Optimized backend workflows with Pillow and Numpy, enhancing performance by 40% and supporting a diverse range of file formats without compromising speed or reliability.

Foody | *Next.js, Django, PostgreSQL, Docker, Tailwind CSS, TypeScript* — July 2024 – Present

- Designed a recipe management platform hosting 100,000+ recipes with a dynamic user interface, boosting engagement metrics by 25% and improving overall user satisfaction.
- Optimized database queries in PostgreSQL, reducing response time by 35% while ensuring reliable data integrity and scalability for future platform expansions.
- Deployed using Docker and Vercel, ensuring a microservices architecture with 99.9% uptime, showcasing advanced expertise in reliable, scalable deployment strategies.

ACHIEVEMENTS

Reached a maximum **CodeChef** rating of **1310**	Present
Solved over **400 problems** on **LeetCode** with a maximum rating of **1368**	Present
Secured top positions in departmental coding competitions for **5 consecutive months**	Apr 2024
Earned certifications in **CSS** and **Python** from **HackerRank**	Jan 2024
Maintained a **100-day streak** on **CodeChef**, demonstrating consistency and commitment	Dec 2023
Attended the **FOSSCU** Conference, connecting with industry professionals	Nov 2023
Contributed 4 open-source **PRs** during **Hacktoberfest**	Oct 2023
Completed a **75+ hour LinkedIn Learning** course on full-stack web development	Sep 2023

TECHNICAL SKILLS

Languages: Python, C/C++
Technologies/Frameworks: Next.js, Django, PostgreSQL, Tailwind CSS
Developer Tools: Git, Visual Studio Code, Vim, Fedora
Profiles: LeetCode, HackerRank
Certifications: Full-Stack Developer, Python, AWS, Linux, Git
Knowledge: Linux, DBMS, Operating Systems