

Kartikey Pandey

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SKILLS

Programming Languages: Python, C/C++, SQL (MySQL), JavaScript
Frontend Development: React.js, Bootstrap, EJS Templates, Material-UI
Backend Development: Node.js, Express.js, OpenCV, NumPy
Database Management: MongoDB, MySQL, Atlas
Architecture: MVC Pattern, RESTful APIs, OOP
Tools & Technology: Git, npm, Postman, VS Code, Render, Vercel, Streamlit, Cloudinary, Canva, Figma

PROJECTS

- Forest Fire Detection using DL** | *CNN-Based Image Classifier For Early Forest Fire Detection* April 2025
- Source Code: **GitHub**, **Colab**.
 - Developed a **Convolutional Neural Network (CNN)** using **TensorFlow** and **Keras** to detect forest fires in aerial images
 - Preprocessed **750+** images using **normalization, resizing, and data augmentation** to improve model generalization
 - Achieved **89%** accuracy on the test set and evaluated performance using **confusion matrix and loss/accuracy curves**.
- Smart Resume Generator** | *AI-driven platform for real-time, customizable resume creation.* February 2025
- Source Code: **GitHub**.
 - Built an AI-driven platform using Google **Generative AI** and **Streamlit** to create professional, customizable resumes in real-time.
 - Integrated **Multi-format downloads (PDF/DOCX)**, ensuring user flexibility and a streamlined experience.
 - Designed **secure data handling** with environment variables for **sensitive API key** management.
- WonderLust** | *Full-stack vacation rental platform* December 2024 - Present
- Source Code: **GitHub**; Hosted on Render:**Official Website**
 - Created a full-stack vacation rental platform using **Node.js**, **MongoDB**, and **Cloudinary**
 - Designed responsive web interfaces and **secure user authentication**.

EXPERIENCE

- Cyber Security Intern** January 2025 – February 2025
IBM SkillsBuild
- Identified security flaws in simulated applications.
 - Strengthened my understanding of threat modeling and protection techniques, applying principles to develop secure application designs.
- Open Source Contributor** May 2024 – August 2024
GirlScript Summer of Code
- Optimized **front-end, UI/UX** using HTML, CSS, JavaScript, and **React.js**, reducing load time by **75%**.

EDUCATION

- REC Pratapgarh** Pratapgarh, India
B.Tech. in Computer Science and Engineering 2023 – 2027
- JDSVMIC, Prayagraj** Prayagraj, India
Intermediate 2021 – 2022

COMPETITION & CERTIFICATIONS

- Reverse CodingX competition, IIT Madras** January 2025
- Finalist** in **Reverse CodingX competition, IIT Madras** (out of 1841 participants), demonstrating advanced problem-solving and algorithm design skills.
- Tata Cybersecurity Analyst Job Simulation** February 2025
- Completed cybersecurity training. Gaining expertise in security protocols and vulnerability analysis.