Vivek Vishwakarma

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# SUMMARY

Results-driven Cybersecurity Specialist with expertise in C, Python, and secure automation workflows. Hackathon winner and active GitHub contributor, with hands-on experience in building AI-driven and LLM-powered solutions for enhanced security. Skilled in Linux environments, wireless penetration testing, and automating processes using tools like n8n. Passionate about integrating cybersecurity practices into modern AI, automation, and cloud environments to deliver scalable, reliable, and future-ready solutions. Highly collaborative, innovative, and committed to advancing secure technology through open-source contributions and cutting-edge research.

# WORK EXPERIENCE

## OPENGEEK TECH COMMUNITY Jun 2025 - Present

* Designed and developed a **secure, responsive Admin Panel** for OpenGeek, featuring role-based access control, scalable architecture, and industry-grade security practices. Optimized for cross-device usability and seamless management of community operations. (<https://community.opengeek.in/>)

## INVERTISPREP (INVERTHON 2025) Apr 2025 - Jul 2025

* Worked as **Cybersecurity Head & Testing Expert**, securing the platform through penetration testing and vulnerability assessments using **Kali Linux, Burp Suite, and Wireshark**. Ensured safe authentication, risk mitigation, and reliable student access to PYQs, notes, and gamified learning. (<https://www.invertisprep.in/>)

## Legal AI – Full Stack Web App Sep 2024 - Jan 2025

* Built an AI-powered legal assistant with **FastAPI** backend and **React (TypeScript)** frontend, featuring legal Q&A, document analysis, and Gemini API integration. (<https://lawai-frontend-ten.vercel.app/>)

## School ERP Marketing Website – UI Design Plan Apr 2024 - Jun 2024

* Designed a professional and user-friendly UI plan showcasing ERP features for educational institutions.

# EDUCATION

# Bachelor of Computer Application 2024 - 2027

# Invertis University, Bareilly

# Class XII - 86.62 % 2023 - 2024

# Khedu I.C, Padrauna

# Class XII - 67.54 % 2022 – 2023

# Khedu I.C, Padrauna

# ACHIEVEMENTS

# Active Open Source Contributor (GitHub)

Completed **80+ contributions** across multiple open-source projects. Worked on web development,

AI/ML, and cybersecurity domains. Improved features, fixed issues, and collaborated with global

developers.

# Member, Google Developer Group (GDG), New Delhi

Actively contributed to developer meetups, hands-on sessions, and collaborative projects within the Google tech ecosystem.

* **Winner – INVERTHON 2025 (University-Level Hackathon)**

Led a team to victory by developing an innovative tech solution under tight deadlines,

demonstrating exceptional problem-solving and leadership skills.

* **Winner – TECHATHON 2024 (University-Level Hackathon)**

Secured 1st place with a cutting-edge project showcasing expertise in full-stack development and modern technologies.

* **Cybersecurity Job Simulation – New York Jobs CEO Council (Forage)**

*(Completed on June 5, 2025)*

Gained hands-on experience by designing phishing email simulations and interpreting results.

Strengthened practical cybersecurity skills through a virtual job simulation program.

* **Cybersecurity Virtual Internship – CodeAlpha**

Completed a virtual internship program focusing on core cybersecurity practices. Worked on tasks like phishing simulation design, vulnerability assessment, and email analysis.

* **Cybersecurity Analyst Job Simulation – Tata Group (Forage)** *(Completed on July 29, 2025)*  
  Gained practical experience in Identity and Access Management (IAM) fundamentals, strategy assessment, and platform integration.  
  Strengthened skills by crafting custom IAM solutions through a virtual job simulation program.
* **Firebase Studio Developer Community – Google for Developers**  
   *(Joined in July 2025)*  
  Recognized as a member of the Firebase Studio Developer Community.  
  Collaborating with global developers to enhance app development practices, exchange knowledge, and support innovation in open-source projects.
* **Build with AI Delhi Workshop – Google for Developers & AI Camp**  
  *(Attended in 2025)*  
  Participated in an immersive workshop on Generative AI, covering LLM security with Model Armor, building multi-agent systems with Google ADK, and live coding with Gemini + Firebase.  
  Gained hands-on experience in prompt injection defense, AI financial agents, and collaborated with the AI developer community.

# TECHNICAL SKILLS

# Full-Stack Web Development: Proficient in building and deploying web applications using Next.js (React) for frontend and Express.js (Node.js) for backend

# API Development & Integration: Skilled in designing, developing, and integrating REST APIs for web and mobile apps.

# Database & Backend Services: Supabase, Firebase, Firestore – schema design, queries, real-time data handling.

# Authentication & Security: Implemented secure authentication using Firebase Auth, Google Cloud Console.

# Version Control & Collaboration: Advanced Git user; highly proficient with GitHub (branching, pull requests, team workflows).

# Cloud & Deployment: Experienced with Google Cloud Platform (GCP), VPS/Linux servers, CI/CD pipelines, SSH configuration, DNS & domain management.

# AI & Prompt Engineering: Expertise in prompt engineering, AI-powered development workflows, and AI integration into applications.

# Problem Solving & Optimization: Strong debugging skills, scalable architecture design, and rapid MVP development for startup environments.

# Linux Administration: Proficient in using Kali Linux and Ubuntu for system administration, package management, and server configuration.

# Shell Scripting & Automation: Skilled in writing Bash/Shell scripts to automate system tasks, manage cron jobs, and streamline workflows.

# Networking & Security: Experienced in network setup, configuration, and troubleshooting, with practical knowledge of TCP/IP protocols, Nmap, Wireshark, and basic penetration testing using Kali Linux tools.

# PROJECTS

# Number Guesser Game – Python & Tkinter: Developed an interactive GUI-based game where players guess a random number between 1 and 100. Implemented features like real-time feedback, attempt tracking, best-score saving, gradient background, hover effects, and keyboard support for enhanced UX. Key Learnings: GUI design with Tkinter, game logic management, input validation, error handling, and UI/UX enhancement.

# Legal AI – Full Stack Web App: Built an AI-powered legal assistant with FastAPI backend and React (TypeScript) frontend, featuring legal Q&A, document analysis, and Gemini API integration.

# Real-Time Invisibility Cloak – Python & OpenCV: Developed a real-time computer vision project using OpenCV that creates an invisibility effect via webcam. Implemented HSV color detection, background replacement, and interactive color overlay modes (red, green, blue) with hotkey controls.

# Network Packet Sniffer – Python & Scapy: Developed a command-line based packet sniffer to monitor live network traffic. Implemented IP layer extraction, protocol identification (TCP, UDP, ICMP), and packet metadata logging (source/destination addresses and ports). Added functionality to apply BPF filters for targeted capture and export traffic to PCAP files for further analysis.