

VINNER

Full-Stack Engineer · IEEE Published Researcher · DevOps Learner
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SUMMARY

MCA student and Full-Stack Engineer with 2+ years of freelance experience building end-to-end web applications. Co-authored an IEEE published research paper on satellite-based flood detection using deep learning. Currently learning DevOps - Docker, CI/CD, and AWS.

PUBLICATIONS

Vinner, Vandana Sharma, Parkash Velusmay. "Satellite-Based Flood Detection Using Deep Learning and Probabilistic Mapping: A Case Study of Ganga Floodplain." **IEEE Conference, Punjab. Accepted Feb 2026. Presenting April 2026.**

EXPERIENCE

Front-End Developer

01/2021 - 10/2023

Freelance

- Optimized core web vitals for 5+ client applications, resulting in 30% faster page load times and 16% increase in user retention scores.
- Integrated third-party payment gateways and contact forms; redesigned client UI resulting in measurable improvement in user retention.

EDUCATION

Masters of Computer Application

08/2025 - 05/2027

Christ University, Delhi NCR

Bachelor of Computer Applications

10/2022 - 04/2025

Chandigarh University, Chandigarh

PROJECTS

Gym Management System -- Next.js · Tailwind CSS · PostgreSQL

[GitHub ↗](#)

- Engineered a full-stack SSR platform with Next.js App Router for managing memberships, trainer schedules, and nutrition plans with real-time analytics.
- Developed secure role-based authentication, RESTful APIs, and integrated Google Calendar API for automated coaching session scheduling.

E-Commerce Platform -- React · Node.js · Express · PostgreSQL

[GitHub ↗](#)

- Built a full-stack platform from Figma to deployment with separate admin, seller, and buyer roles.
- Architected RESTful API endpoints using Node.js and Express handling authentication, product listings, order management, and role-based access control.

ANPR System -- Python · YOLO · PaddleOCR · OpenCV

[GitHub ↗](#)

- Integrated YOLO object detection and PaddleOCR achieving 80% accuracy in license plate recognition with 20% improvement in data throughput.

Flood Detection & Severity Mapping — IEEE Research

[GitHub ↗](#)

- Co-authored IEEE accepted research training a U-Net CNN on Sentinel-1 SAR imagery for flood detection — achieving 83% recall optimized for disaster response.
- Generated probabilistic severity maps classifying the Ganga floodplain into low, medium, and high flood risk zones.
- Stack: Python · U-Net · Deep Learning · SAR Imagery · Pandas

SKILLS

Primary: Next.js, React.js, Node.js, PostgreSQL, Python, JavaScript

Learning: Docker, GitHub Actions, AWS, CI/CD

AI/ML: TensorFlow, Scikit-learn, OpenCV, PaddleOCR, Pandas

Languages: JavaScript, Python, C++, C, Java

LEADERSHIP

Event Manager, UpEntertainment & Productions: Executed Darshan Raval India Tour with 7,500+ attendees; managed end-to-end logistics and vendor coordination.

NSS Coordinator, Chandigarh University: Organized 13+ blood donation camps, 2 medical camps, and 8+ cleanliness drives.