

Angel Mishra

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EDUCATION

Banasthali Vidyapith

Bachelor of Technology in Electronics and Communication Engineering

2023 – 2027

Rajasthan, India

DAV Public School

Senior Secondary Education – Class XII, CBSE

2023

DAV Public School

Secondary Education – Class X, CBSE

2021

SKILLS

Programming Languages: Java, Python, JavaScript, SQL

Backend Technologies: Spring Boot, Spring Security, Spring Data JPA, Hibernate, REST APIs, FastAPI, Flask

Frontend Technologies: React.js, Redux Toolkit, Tailwind CSS, HTML5, CSS3

Databases: PostgreSQL, MySQL, SQLite, H2

Tools and Security: Git, GitHub, Maven, Docker, Flyway, Postman, JWT, BCrypt, Role-Based Access Control

Machine Learning and CS Fundamentals: OpenCV, TensorFlow, scikit-learn, DSA, OOP, DBMS, Operating Systems, Computer Networks

EXPERIENCE

National Institute of Technology, Kurukshetra

Research Intern – Machine Learning & Computer Vision

May 2026 – Jul 2026

[Certificate](#)

- Developed an AI-powered video analytics and virality prediction application using Python, Flask, OpenCV, and machine learning for automated video analysis.
- Built a computer vision pipeline for motion and optical-flow analysis, scene-change detection, face detection, brightness, contrast, hook intensity, and video pacing.
- Integrated machine learning inference, analysis history, interactive visualizations, personalized recommendations, and automated PDF report generation.

National Service Scheme (NSS) – Volunteer

2024 – 2026 | [Certificate](#)

- Contributed to community outreach, awareness campaigns, social initiatives, and collaborative volunteering activities.

PROJECTS

CampusShare – Peer-to-Peer Campus Marketplace

Java 21, Spring Boot, React.js, PostgreSQL, Spring Security, Spring Data JPA, JWT, Razorpay

- Developed a full-stack campus marketplace supporting authenticated item listings, rentals, purchases, sales, and transaction-history workflows.
- Built REST APIs using Spring Boot, Spring Data JPA, Hibernate, and PostgreSQL, implementing concurrency-safe rental processing through pessimistic database locking and optimistic versioning.
- Secured transactions using Spring Security, JWT, BCrypt, role-based access control, ownership validation, and Razorpay integration with server-side price validation, HMAC verification, and idempotent webhooks.

HireVia – Job Portal & Applicant Tracking System

Java 21, Spring Boot, React.js, Redux Toolkit, PostgreSQL, Spring Security, Spring Data JPA, REST APIs, JWT

- Developed a full-stack Job Portal and Applicant Tracking System supporting candidate and employer accounts, job search, applications, saved jobs, profiles, and recruitment workflows.
- Designed REST APIs for job, user, and application management with stateless JWT authentication, role-based access control, rate limiting, BCrypt hashing, and server-side ownership validation.
- Implemented candidate-employer messaging and application tracking across Applied, Shortlisted, Interview, Hired, and Rejected stages.

FloodGuard AI – Computer Vision-Based Flood Monitoring System

Python, FastAPI, TensorFlow, OpenCV, MobileNetV2, SQLite, WebSockets

- Developed a computer vision system using MobileNetV2-based classification and Lucas-Kanade optical flow for automated flood-scene and estimated surface-motion analysis.
- Built real-time video processing, SQLite-based incident persistence, MJPEG monitoring, WebSocket alerts, and a reproducible machine learning training workflow.

ACHIEVEMENTS

- First Runner-Up – HackVerse 2025, Banasthali Vidyapith
- Second Place – Triwizardathon 1.0, Microsoft Learn Student Ambassador, GLA University Chapter
- Participant – HackIndia 2025, Web3 and AI Hackathon

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