

Akshay Varma

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Bhopal, Madhya Pradesh, India

EDUCATION

Sagar Institute of Research and Technology (SIRT) – RGPV

Bhopal, MP

Bachelor of Technology in Computer Science Engineering

Sept. 2023 – Aug. 2027

- CGPA: 7.5/10.0
- Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering

EXPERIENCE

Full-Stack Web Development Intern

June 2025 – Aug. 2025

Pantech Prolabs India Pvt. Ltd. (Pantech.AI)

Remote

- Developed React.js/Express.js CRUD dashboards with JWT-based authentication, demonstrating core full-stack engineering skills.
- Improved API response performance by **50%** through strategic database indexing, reducing latency from 200ms to 100ms.
- Collaborated in Agile sprints with a senior mentor and peer developer, following software development lifecycle best practices.
- Gained hands-on experience with version control (Git), RESTful API design, and remote team collaboration workflows.

PROJECTS

Kachra Seth: AI-Powered Urban Waste Management Platform | *React, Vite, FastAPI, MongoDB*

2025

- Secured 3rd Place at Anveshana 2025** among top engineering innovations from across the region.
- Built a “**Digital Twin**” municipal operations console using React and Vite with a modern Glassmorphism UI, providing real-time visualization of city-wide waste infrastructure.
- Implemented **QR-based bin verification** system, reducing infrastructure costs by **90%** compared to traditional IoT sensor deployments.
- Designed intelligent route optimization algorithms that reduce municipal fuel costs by **30%** and improve waste collection efficiency by **40%**.
- Integrated a “**Green Score**” gamification leaderboard system to incentivize citizen participation and drive measurable behavior change toward sustainable waste disposal.

SkillBridge – Profile-to-Scheme Matching Engine | *Python, FastAPI, React, Redis* | [GitHub](#)

2024

- Solved the problem of scattered, non-personalized government internship/scheme listings by building an AI-powered matcher for **1,000+ user profiles** against **500+ government schemes**.
- Achieved **95% match accuracy** with **sub-2 second response times** using efficient vector similarity and caching via Redis.
- Built a multilingual UI supporting **3 languages** and a CV parser with **90% extraction accuracy** to lower barriers for diverse users.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C++, SQL, HTML/CSS

Frameworks & Libraries: React.js, Node.js, Express.js, FastAPI, Vite, Tailwind CSS, Flask, Bootstrap

Databases: MongoDB, Redis, PostgreSQL, Firebase

Tools & Platforms: Git, Linux, Postman, VS Code, Google Cloud Platform, REST APIs

ACHIEVEMENTS & CERTIFICATIONS

3rd Place – Anveshana 2025 Hackathon: Awarded among top engineering innovations for Kachra Seth, an AI-powered urban waste management platform.

NPTEL Java (IIT Kharagpur) – Silver Medal: Achieved 75%+ score, demonstrating strong proficiency in Core Java and object-oriented programming.

Frontend Bootcamp (HTML/CSS/JS): Earned Responsive Design badge for building accessible, mobile-first web interfaces.

Pantech.AI Full-Stack Internship Certificate: Completed a competitive 3-month program in full-stack web development and agile practices.

ADDITIONAL INFORMATION

Languages: English (Fluent), Hindi (Native)

Interests: Competitive Programming, Hackathons, DevOps & Cloud Engineering, Technology Blogs, Football