

# Akshat Saxena

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## SUMMARY

Versatile and performance-driven Software Engineer with hands-on experience designing and deploying scalable, secure, and user-centric web applications. Proven ability to architect backend APIs and responsive frontends using modern frameworks like FastAPI, Spring Boot, and React. Delivered production-ready features across full-stack projects, **improved debugging efficiency by 25%**, and implemented role-based access control (RBAC). Adaptable team player with a strong grasp of software design principles, eager to solve real-world problems and contribute to high-impact engineering teams.

## EDUCATION

- **Maulana Azad National Institute of Technology (MANIT)** 2021 – 2025  
*Bachelor of Technology - Computer Science* 7.92/10

## INTERNSHIP AND EXPERIENCE

- **Software Engineer** Feb'25 – Present  
*Nucleusteq* Trainee
  - Undergoing full-stack software engineering training with a focus on clean code and modular design.
  - Programmed a complete web app using Java (Spring Boot) and JavaScript, applying MVC and service-layer principles.
  - Engineered a RESTful backend for an e-commerce app using FastAPI, JWT, and PostgreSQL **implementing 100% role-based access control**.
  - Improved code quality by following SOLID principles, **leading to a 25% reduction in debugging time** during team reviews.
- **Web Developer Intern** July'24 – Aug'24  
*Techno Hacks Solution* Remote
  - Successfully created and deployed scalable, adaptive web applications, ensuring seamless performance across diverse platforms and devices.
  - Used React and modern CSS frameworks to **reduce load time by 30%** across devices.

## PERSONAL PROJECTS

- **FastAPI E-commerce API** [[GitHub](#)] June 2025  
*Constructed a scalable REST API for an e-commerce platform using FastAPI and PostgreSQL.*
  - Implemented secure JWT authentication with role-based access for admin and users.
  - Built API endpoints for product management, cart, checkout, and order history.
  - Streamlined backend logic using SQLAlchemy ORM and Alembic migrations.
- **Study Notion** [[GitHub](#)] Sept 2024  
*A learning platform that helps students monitor and organize educational resources.*
  - Tools & technologies: **MERN stack, Vercel**
  - Full-stack project featuring user authentication and authorization.
- **E-Cart Website** [[Live](#)] [[GitHub](#)] July 2024  
*Crafted a robust E-Cart website to deliver a seamless online shopping experience.*
  - Optimized state management and UI responsiveness to reduce render delays.
  - Deployed production-ready build on Netlify with performance-focused optimization.
- **Weather App** [[Live](#)] [[GitHub](#)] May 2024  
*Modeled a weather application that fetches and displays weather data using API calls*
  - Tools & technologies: **HTML, CSS, JavaScript, Open Weather API, GitHub Pages (for deployment)**
  - **Integrated Open Weather API** to retrieve and display weather information.
- **TIC TAC TOE Game** [[Live](#)] [[GitHub](#)] June 2024  
*Architected a browser-based interactive game to demonstrate DOM manipulation skills.*
  - Tools & technologies: **HTML, CSS, JavaScript, Vercel**
  - Executed **game logic** and user interface using JavaScript.

## TECHNICAL SKILLS AND INTERESTS

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- **Programming Languages:** C++, JavaScript, Python, Java
- **Frontend:** HTML, CSS, JavaScript, React.js, Redux, Tailwind CSS
- **Backend:** Node.js, Express.js, FastAPI, Spring Boot, Hibernate, JPA
- **Tools and Platforms:** Git, GitHub, Postman, Netlify, GitHub Pages
- **Databases, Cloud and APIs:** MySQL, MongoDB, PostgreSQL, Cloudinary, REST APIs, Swagger
- **Methodologies:** Agile, MVC, JWT Authentication, Role-Based Access Control (RBAC)
- **Relevant Coursework:** Data Structures, Algorithms, Database Management Systems (DBMS), Object-Oriented Programming (OOP), Software Engineering
- **Areas of Interest:** Web Design and Development, Cybersecurity, Artificial Intelligence (AI)
- **Soft Skills:** Problem Solving, Quick Learner, Adaptability, Collaboration, Communication, Teamwork

## ACHIEVEMENTS AND CERTIFICATION

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- **GATE-CS Qualified (2025)**
- **AWS APAC Solutions Architecture virtual experience program** by Forage *Sept '24*
- **SQL** by HackerRank *Link*
- **Completed "Artificial Intelligence Bootcamp"** by Devtown *Link*
- **Software Engineer** by HackerRank *Link*