**Prakhar Shukla**

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[GitHub](https://github.com/PrakharShukla42)

# SUMMARY

# Experienced software developer with a passion for backend development, system design, and cloud technologies. Proficient in Java, Python, and MERN stack, with expertise in APIs, databases, and scalable systems. Interested in functional programming and using clean and efficient code to solve real-world problems.

# EDUCATION

***Bachelor of Technology in Computer Science in IIoT CGPA 7.5***

***GLA University, Mathura*** *June 2026*

# PROJECTS

[**Smart-Shopping-Cart**](https://github.com/PrakharShukla42/Smart-Shopping-Cart) **Dec-2022 – Feb 2023**

* **Created a smart shopping basket using IIoT hardware like Arduino Uno, Node MCU, ESP8266, OLED display, RFID tags, and scanner to enhance the shopping experience.**
* **Developed a live dashboard that shows product details for the smart basket, updating every two seconds to improve customer interaction and tracking of items.**
* **Built a dynamic web interface to show real-time updates of the shopping cart, making it easy for users to monitor their selections.**
* **Used Arduino and Node MCU programming, along with HTML and CSS, to create an interactive and user-friendly system.**

[**Multi-Website Hosting on AWS Amazon Linux Server in Mumbai Region**](https://github.com/PrakharShukla42/Cloud-Computing) **July 2024 – Aug 2024**

* **Set up multiple websites on a single EC2 instance in Mumbai, ensuring fast content delivery.**
* **Used Apache HTTP Server to manage the websites on one server, maintaining good performance.**
* **Integrated Amazon RDS for scalable and reliable database management.**
* **Stored and delivered content securely with Amazon S3 for high availability.**
* **Applied EC2 Auto Scaling to adjust resources based on traffic demands, keeping the app running smoothly.**
* **Implemented Amazon CloudFront as a CDN to speed up content delivery and enhance user**

[**Shooting Game**](https://github.com/PrakharShukla42/Shooting-Game) **March-2023 – June-2023**

* **Developed an online shooting game using Python, creating an engaging and interactive gameplay experience.**
* **Designed a user-friendly interface with easy-to-understand controls, enhancing player enjoyment.**
* **Implemented game mechanics like shooting, scoring, and level progression to keep the game exciting.**
* **Optimized the game performance for smooth gameplay and quick response times.**

[**CRM Ticket System**](https://github.com/Ashita-0204/Ticket-Authentication) **January-2025-April-2025**

* **Tech Stack: Node.js, Express.js, MongoDB, JWT, REST APIs, Postman**
* **Developed a full-stack ticket management system enabling users to raise, track, and resolve service issues.**
* **Integrated JWT-based authentication with role-based access (admin/user separation).**
* **Designed and built RESTful APIs for ticket operations (CRUD) and user management.**
* **Optimized MongoDB queries and implemented middleware logic to secure endpoints.**
* **Focused on clean architecture, scalability, and maintainability using MVC design pattern.**

# SKILLS

**💻 Technical**

* **Programming Languages:** Java, Python, JavaScript (Node.js, Express.js)
* **Backend & API Development:** REST APIs, JWT Authentication, MVC Architecture
* **Cloud & DevOps:** AWS (EC2, S3, RDS, CloudFront), Cloud Deployment, Linux Server Administration
* **Database:** MongoDB, MySQL
* **Web Technologies:** HTML, CSS, Responsive Web Design, WordPress CMS
* **IIoT Development:** Arduino Uno, NodeMCU, ESP8266, RFID integration

**🤝 Professional**

* Effective Communication
* Team Collaboration
* Leadership & Initiative
* Problem Solving & Critical Thinking

# PROFESSIONAL ACHIEVEMENTS/ INSIGHTS

# Software Engineer Intern – HackeRank

# Certified in Cloud Computing – AWS

# Foundation of Prompt Engineering – AWS & DeepLearning.AI

# AWS Cloud Practitioner Essentials – AWS

# Getting Started with IoT – AWS

# MongoDB Developer Certification – MongoDB University (Official Site)

# CO-CURRICULAR ACTIVITIES

* Coordinated Tech-Expo (Project Exhibition, GLA, January, 2024).
* General Secretary CSED Club

**DECLARATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

I hereby declare that all the above-mentioned information is true and correct to the best of my knowledge.