

Mukul Sharma

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SKILLS

- **Cyber Security:** Network Security, IAM, Cloud Security (AWS), Secure Architecture, Ethical Hacking (learning)
- **AI & ML:** ML Algorithms, AI-IoT, LLM/GenAI APIs, Prompt Engineering
- **Mobile & UX:** Flutter (AI-integrated apps), UI/UX Design, Figma
- **Languages:** Python (primary), Java, C, C++
- **Cloud & DevOps:** AWS — Lambda, DynamoDB, API Gateway, Amplify, SNS, SQS, Step Functions, CodePipeline, CloudWatch, IAM; CI/CD, NGINX
- **Web / Backend:** Node.js, React, Next.js, Express.js, MongoDB Atlas, MySQL
- **Tools:** Git, GitHub, VS Code, IntelliJ, Salesforce CLI, Unity 3D, Blender
- **Soft Skills:** Problem-Solving, Team Leadership, Project Management, Adaptability, Logical Thinking

PROJECTS

Inventrox — AI Inventory & Purchase Management System · Personal Project Jun 2026 – Present

- Developed a full-stack AI-powered inventory management platform for SMEs featuring inventory tracking, purchase management, supplier records, and analytics dashboards.
- Integrated AI-assisted demand prediction, smart stock alerts, automated service reminders, and weather-aware notifications using cloud APIs.
- Implemented secure authentication, responsive UI, REST APIs, and scalable backend architecture with cloud deployment support.

Tech: Next.js, Node.js, Express.js, MongoDB Atlas, Python, AWS, Firebase, REST APIs.

EcoGeoGuard Website — AI-Powered Disaster Prediction & Smart Farming Platform Apr 2026 – Present

- Designed and developed a full-stack web platform that delivers AI-powered landslide risk prediction, smart farming insights, real-time weather updates, and government scheme recommendations for farmers and local communities.
- Built secure authentication, interactive dashboards, AI chatbot assistance, live sensor data visualization, and cloud-based APIs to provide actionable recommendations and emergency alerts.
- Developed a scalable cloud architecture with responsive UI, real-time data processing, and modular backend services to support future IoT device integration and predictive analytics.

Tech: Next.js, Node.js, Express.js, MongoDB Atlas, Python, AWS, Firebase, REST APIs, AI/ML.

EcoGeoGuard — AI-IoT Landslide Prediction & Smart Farming · Personal Research Project Dec 2025 – May 2026

- Designed and built an end-to-end AI-IoT system that predicts landslides and monitors agricultural parameters using real-time multi-sensor data fusion through an ML pipeline.
- Engineered real-time alert delivery via SMS, mobile app, and physical alarms; handled edge computing on hardware and cloud processing on AWS (Lambda, DynamoDB, API Gateway).
- Research paper accepted at DASGRI Congress 2026 — first experience writing and submitting a peer-reviewed paper, learning to structure experiments and results clearly.

Tech: Python, ML Algorithms, AWS (Lambda, DynamoDB, API Gateway), IoT, LoRa/GSM.

Serverless Web Application on AWS · Personal Cloud Project Feb 2025

- Built a complete serverless web app from scratch — Lambda for backend logic, DynamoDB for storage, Amplify for the frontend, Step Functions for workflow automation.
- Implemented SNS/SQS for async messaging, established a CI/CD pipeline via CodePipeline, and applied IAM least-privilege policies with CloudWatch observability dashboards.

Tech: AWS (10+ services), Node.js, Python, Linux, NGINX, Apache.

SIH — AYUSH VR Herbal Garden · Smart India Hackathon Sep 2024

- Built an immersive VR experience for learning about medicinal plants — botanical names, habitats, cultivation, and medicinal uses — as part of a hackathon team.
- Developed a full Node.js/Express/MongoDB Atlas backend deployed on Vercel via Next.js; learned Unity 3D and Oculus SDK under hackathon time pressure.

Tech: Next.js, Node.js, Express.js, MongoDB Atlas, Unity 3D, Blender, Oculus SDK, Vercel.

RESEARCH PUBLICATION

EcoGeoGuard: AI-IoT Based Landslide Prediction and Smart Agriculture System April 2026

Mukul Sharma et al. · Accepted at DASGRI Congress 2026

TRAINING

DevOps with Cloud Computing Using AWS Services

Jan 2025 – Feb 2025

Programming Pathsala

- Built and deployed a serverless website hands-on using 10+ AWS services including Lambda, Step Functions, DynamoDB, Amplify, SNS, SQS, CloudWatch, IAM, EventBridge, and CodePipeline.
- Event-driven patterns learned here — Lambda triggers, SQS queues, Step Functions — directly shaped the architecture of the EcoGeoGuard cloud backend.

Tech Used: AWS Services, Node.js, Python, Linux, NGINX, Apache.

Salesforce Developer Catalyst Plus

Jun 2025 – Jul 2025

Trailblazer Connect (Rank Mountaineer · 29 badges · 25225 points)

- Completed the full Trailmix series covering Apex programming, Lightning Web Components (LWC), data modelling, and REST API integration with hands-on challenges throughout.
- Gained experience with declarative automation tools — Flows, Process Builder, and Validation Rules — alongside the programmatic Apex development track.

Tech Used: Salesforce CLI, Apex, LWC, SOQL, Flow Builder, REST API, VS Code.

CERTIFICATIONS

Google UX Design — Coursera · Google

April 2026

Cloud Computing — NPTEL

Jul 2025 – Oct 2025

Core & Advanced Java — Programming Pathsala

Jun 2024 – Aug 2024

Data Structures & Algorithms using C and C++ — Udemy

Feb 2024 – Mar 2024

Design and Analysis of Algorithms — Coursera

Jan 2024 – May 2024

POSITION OF RESPONSIBILITY

CEO of Student Organization SAPPHIRE

Dec 2022 – Nov 2023

Led a 20+ member student-run organisation under LPU's Department of Student Organisations — oversaw event planning, member management, and inter-department coordination.

Developed leadership, communication, and organisational skills by managing diverse teams and representing the organisation at university-level events.

EDUCATION

Lovely Professional University

Bachelor of Technology - Computer Science and Engineering (Cyber Security)

Punjab, India

Aug 2022 – Present

Central Academy School

Intermediate; Percentage: 72%

Bapu Nagar, Bhilwara

April 2020 - March 2022