

Princi Jain

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Education

Keshav Memorial Institute of Technology , B.Tech in Computer Science Engineering CGPA: 8.4/10.0	Nov 2022 – May 2026
Page Junior College , <i>Mathematics, Physics, Chemistry</i> Percentage: 94%	June 2020 – May 2022
St. George's Girls' Grammar School , ICSE Percentage: 88%	March 2020

Experience

Software Engineer Intern Eventbrite	July 2025 - Dec 2025
• Migrated internal Retool(LCNC) configurations from deprecated YAML to ToolScript, improving system security, readability, and maintainability with zero client impact.	
• Improved backend access control for a Retool LCNC application by updating AWS Lambda authorization logic behind API Gateway — restoring 100% user access.	
• Designed an end-to-end automation strategy for service-level AWS Budget Alarms in TLZ, including spend analysis, IAM policies, CDK deployment patterns — enabling proactive cost governance.	
• Upgraded AWS Lambda runtimes (Python & Node.js) and patched 25+ vulnerable dependencies using Snyk, hardening production security posture.	
• Boosted code quality to 80% by enforcing PR linting gates (Pylint, ESLint/Prettier), standardized PR templates, and mandatory JIRA ticket linkage for deployment traceability.	
• Converted manually created CloudWatch dashboards into AWS CDK infrastructure-as-code, improving deployment speed, consistency, and scalability for observability.	
Developer Tech for Autism and Dyslexia	April 2024 - Sept 2024
• Designed and built an interactive memory game for children with dyslexia using a drag-and-drop interface.	
• Developed frontend and backend with the MERN stack and Tailwind CSS for responsive, accessible UI. And built backend APIs for sessions, game logic, and results with secure, efficient database access.	

Projects

Aqua Sentinel	2025
• Engineered a dual deep learning pipeline (YOLOv11/Faster R-CNN) to integrate SAR and optical satellite imagery for accurate vessel and marine debris detection.	
• Designed and validated a spatial-temporal correlation algorithm to link detected ships to newly formed debris zones, generating reliable proximity-based pollution alerts.	
• Deployed a secure full-stack visualization platform (React.js/Flask) for interactive map analysis, and established an automated alerting pipeline for regulatory reporting.	
Remote Sensing AI	2024
• Our fully trained and fine-tuned models—including the Vision Transformer (ViT) for crop classification, UNETR for flood detection in SAR images, and Pix2Pix GAN for SAR image colorization—have each achieved an accuracy exceeding 92% . These advancements significantly enhance agricultural decision-making, optimize disaster response strategies, and improve image interpretability for defense and research applications.	
• Developed using FastAPI, Flutter, Ngrok, Firebase, and Python libraries(Tensors, Keras) .	

Technical Skills

- Programming & Database:** Python, Java, SQL, MySQL, MongoDB
- Generative AI & CV Models:** YOLOv11, Faster R-CNN, ViT, UNETR, Pix2Pix GANs, LLM integration (xenova transformer)
- Backend & API Development:** Flask, Node.js, Express, REST APIs, Flutter, React
- Cloud & DevOps:** AWS, Docker, Git/GitHub
- Concepts:** Agentic AI, DSA (500+ LeetCode), OOPs

Achievements

- **1st Runner-Up**, Sri City Hackathon 2023: Built StudyR, a group study app using dynamic matching logic; led backend development.
- **Google Facilitator Program (Milestone 3)**: Earned 30+ skill badges demonstrating practical cloud knowledge.
- **Core Member**, Recurse Club: Co-led Codenovate 2024, organizing a 24-hour hackathon.
- **Basketball Representative**, XXVI AP & Telangana Regional ICSE/ISC Schools (2017–2019): Played nationally, showing leadership and team commitment.