

# Badal Raj

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## SKILLS

- **Languages:** JAVA, Python, HTML, SQL
- **Frameworks:** HTML and CSS, AWS Lambda, AWS API Gateway
- **Tools/Platforms:** AWS, MySQL, Apache
- **Soft Skills:** Problem Solving, Critical Thinking, Effective Communication

## PROJECTS

- **Serverless Login Page with AWS Lambda and API Gateway:** January 2025  
Built a secure and scalable serverless login system using **AWS Lambda** and **API Gateway** to handle user authentication  
Engineered backend logic in **Python** to verify use credentials and manage authorization with **JWT** for session handling  
Deployed the frontend on an **AWS EC2 instance (Apache)** and ensured secure communication using **CORPS policies** and **IAM roles**  
Improved scalability to handle up to **1000 concurrent login requests** without performance issues
- **Web Server Hosting on AWS EC2:** December 2024  
Configured a website on **AWS EC2** using **Ubuntu** and **Apache** for reliable hosting  
Strengthened server security by improving **SSH access** and enabling automatic security updates  
Integrated **GitHub Actions** to automate website updates and remove manual deployment tasks  
Reduced maintenance efforts by **30% through automation**
- **Library Management System:** June 2024  
Built a basic **Library Management System** to handle book records through a Java program running in the terminal  
Developed backend logic using **Java** with **OOP principles** and integrated **CRUD operations** for adding, updating, and deleting book records  
Created a structured **MySQL database** to store book details and optimized queries for quick data access  
Improved efficiency to manage over **50000+ book records**

## CERTIFICATES

- Certificate Of completion – Azure Administrator Associate by Microsoft. February 2025
- Mastering Data Structures & Algorithms using C and C++ by Udemy February 2024
- GenAI for Everyone by Coursera (Google) February 2024
- Certificate Of Completion - Core and Advanced Java by Board Infinity. June 2024

## Extracurricular Activities

- **Coordinator:**  
Interschool Literary Championship – logistics, and participant engagement, ensuring effective planning, communication, and execution.
- **Public Speaking & Debate:**  
Improved speaking, argumentation, and persuasive communication by taking part in various discussions and learning to express ideas articulately and with poise.
- **Self-Learning & Technical Exploration:**  
Continuously exploring cloud computing, backend development, and DevOps, showcasing a growth mindset.

## EDUCATION

- **Lovely Professional University** Punjab, India  
*Bachelor of Technology - Computer Science and Engineering; CGPA: 6.12* Since August 2020
- **Himalayan Public School** Bikram, Patna Bihar  
*Intermediate; Percentage: 77.8%* April 2020 - March 2021
- **D.A.V Public School** Gola Road, Patna, Bihar  
*Matriculation; Percentage: 78%* April 2018 - March 2019