

RAKSHIT RAUTELA

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EDUCATION

Graphic Era Hill University

Bachelor of Technology in Computer Science and Engineering

Dehradun, India

Aug. 2021 – May 2025

PROJECTS

UnityDocs | Java, Azure, Spring Boot, WebSocket, PostgreSQL, Jenkins

[View Project](#)

- Developed secure document management with JWT authentication for data integrity
- Built a versatile REST API, enabling seamless client-server communication and version control
- Enabled real-time collaboration using WebSocket
- Implemented CI/CD pipeline using Jenkins for automated deployment.

Online Code Editor | ReactJS, NodeJS, MongoDB, Docker, AWS

[View Project](#)

- Built an online code editor supporting multiple languages
- Ensured efficient and secure program execution within a safe environment.
- Added code optimization metrics, tracking compilation, execution, and resources usage.
- Deployed as a Docker container on Amazon EC2 with AWS services

BERT-Powered QnA Extension | NLP, Deep Learning, Python, BERT, Large Language Model

[View Project](#)

- Created a Chrome extension using NLP techniques and Google BERT
- Extracted webpage content to provide quick answers to user queries
- Developed data pipeline for cleaning, collecting, and processing data
- Implemented real-time natural language processing for improving user interactions

Student Management Application | MySQL, Java

[View Project](#)

- Built a desktop application for efficient student data management
- Designed a relational database schema for efficient storage and management of student data
- Implemented role-based access control for secure data management based on user privileges
- Streamlined processes for data entry and compilation

PixelVision | Python, Machine Learning, Django, Docker, AWS

[View Project](#)

- Engineered a web app for automated medical image classification
- Constructed an efficient algorithm to integrate multiple models, boosting performance
- Applied advanced image processing for accurate medical image analysis
- Deployed on AWS using Gunicorn and Nginx

TECHNICAL SKILLS

Languages: Java, Python, Go, SQL, Bash, C/C++, HTML/CSS, JavaScript

Frameworks: React, NodeJS, Flask, Django, Spring Boot, PyTorch, TensorFlow

Databases: MongoDB, MySQL, PostgreSQL, Oracle DB

Tools & Platforms: Git, Github, Microsoft Azure, Amazon AWS, Docker, Nginx, Jenkins

Other Skills: Linux, NLP, CI/CD, DevOps, MLOps, LLM Web App Security

ACHIEVEMENTS

Bug Bounty (Web Application Security) | Web Application Pentesting - [Hackerone Profile](#)

- Participated in multiple bug bounty programs targeting companies like Paypal and Coinbase
- Identified vulnerabilities affecting web applications and contributed to their security

Deep Learning-Based IoT Malware Detection Using CNN and Transfer Learning: A Comparative Study

[IEEE](#)

- Researched IoT malware analysis with deep learning and VGG16 classification. Explored effective methods for IoT device security. Contributed to cybersecurity and IoT security