RAKSHIT RAUTELA

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EDUCATION

Graphic Era Hill University   Dehradun, India
Bachelor of Technology in Computer Science and Engineering   *Aug. 2021 – May 2025*

PROJECTS

UnityDocs | *Java, Azure, Spring Boot, WebSocket, PostgreSQL*   View Project
- Developed secure document management with JWT authentication for data integrity.
- Enabled real-time collaboration using WebSocket.
- Deployed on Azure for robust hosting.
- Used PostgreSQL for efficient data storage and version control.

Online Code Editor | *ReactJS, NodeJS, MongoDB, Docker, AWS*   View Project
- Built an online code editor supporting multiple languages
- Employed ReactJS and NodeJS for front-end and back-end development
- Integrated MongoDB for efficient data management
- Deployed as a Docker container on Amazon EC2 with AWS services

BERT-Powered QnA Extension | *NLP, Deep Learning, Python, BERT*   View Project
- Created a Chrome extension using NLP techniques and Google BERT
- Extracted webpage content to provide quick answers to user queries
- Enhanced browsing experience with efficient question answering
- 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
- Integrated MySQL for secure 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, Django, Docker, AWS*   View Project
- Engineered a web app for automated medical image classification
- Utilized Python, Django, Docker, and AWS for a scalable solution
- Implemented machine learning for accurate image categorization
- 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
Other Skills: Linux, NLP, CI/CD, DevOps, 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
- Researched IoT malware analysis with deep learning and VGG16 classification. Explored effective methods for IoT device security. Contributed to cybersecurity and IoT security