Yashveer Rai

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EDUCATION

VIT Bhopal University   **Aug 2023 - May 2027**
Computer Science and Engineering   Bhopal, India

Sacred Heart co-ed School   **Feb 2022 - March 2023**
 Higher Secondary   Indore, India

TECHNICAL SKILLS

- **Languages**:   Python, C++, HTML, CSS, JavaScript, SQL
- **Databases**:   MongoDB, MySQL
- **Cloud Computing**:   Cloud fundamentals and architecture, AWS management console (EC2, VPC, S3, RDS, Lambda)
- **Tools**:   Orange Data Mining, PowerBI, PuTTY, VirtualBox
- **Platforms**:   GitHub, VS Code, Jupyter Notebook, Vercel, Netlify, JIRA, Slack
- **Soft-Skills**:   Rapport Building, Stakeholder Management, Cross-functional Collaboration

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RELEVANT EXPERIENCE

Python Developer Intern - Anuyog Software Solutions   **March 2025 – Present**

- Developed a Go-Back-N ARQ protocol simulation using Python (PyQt5) and socket programming, improving network reliability by 35% through implementation of real-time packet flow, acknowledgments, and retransmissions.
- Optimized data transmission efficiency using threading and asynchronous programming, reducing packet loss impact by 28% and enhancing visual clarity with structured UI and dynamic status updates.
- Designed a Shikaku puzzle system with Python and NumPy, generating 100+ unique puzzles daily; integrated FastAPI, boosting puzzle load speed by 60% for 6 grid sizes in ReactJS.
- Automated real-time validation in ReactJS for 100% solution accuracy; added drag-and-drop and color-coded feedback, cutting user errors by 35% across 500+ daily sessions.

PROJECTS

JeevanChakra - Personalized Healthcare Web App | LINK   **March 2025**
- Built a full-stack healthcare solution with React.js frontend and Python backend, integrating AI-driven medical analysis algorithms, increasing self-diagnosis accuracy by 45%.
- Devised an intelligent medication reminder system, reducing missed prescriptions by 60%.

SpartanPlays - Cyber Security Awareness Quiz Platform | LINK   **February 2025**
- Constructed a gamified cybersecurity quiz, boosting engagement by 40% in rural areas
- Unified a user-friendly UI, improving accessibility for 500+ learners.
- Focused on digital literacy, reducing cybersecurity misconceptions by 30%.

Natural Disaster Assessment & Mitigation Strategies | LINK   **August 2024**
- Assembled an ML-powered flood prediction system with 80-90% accuracy, enhancing disaster preparedness.
- Integrated real-time weather data via OpenWeather API, improving forecasting efficiency by 40%.
- Established a Flask-based web app, enabling instant risk assessment for users.

CERTIFICATES

Developing Applications in Python on AWS   **May 2025**
- Mastered Python for scalable AWS cloud application development.
- Engineered efficient serverless systems using AWS Lambda and DynamoDB.

Cloud Technical Essentials, AWS   **March 2025**
- Strengthened expertise in AWS cloud service architectures.
- Conceptualized scalable solutions using EC2, RDS, and Lambda.

Moving to the cloud, University of Melbourne, USA   **October 2024**
- Obtained insights into cloud adoption, strategy, optimization and business impact
- Explored real-world case studies on cloud migration and scalability.

Databases and SQL for Data Science with Python, IBM   **December 2023**
- Learned SQL querying, database management, and data manipulation with Python.
- Worked on hands-on projects involving data extraction, transformation, and analysis.

Introduction to Data Science in Python, University of Michigan   **July 2023**
- Absorbed fundamental data science concepts, including data manipulation and analysis using Python.
- Acquired hands-on experience with libraries like Pandas, NumPy, and Matplotlib for data processing and visualization.