

Yashas R

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EDUCATION

SKILLS SUMMARY

- **Programming & Scripting Languages:** Python, C++, JavaScript
 - **Frameworks & Libraries:** FastAPI, React.js, Next.js, OpenCV, PIL, Pandas, NumPy
 - **Databases & Cloud:** MongoDB, Firebase, Google Cloud
 - **Operating Systems & Tools:** Git, GitHub, Docker, CI/CD
 - **Soft Skills:** Problem-Solving, Ownership, Team Collaboration, Adaptability, Time Optimization

PROFESSIONAL EXPERIENCE

- **Metabees.org** Remote
Jan 2024 – Jan 2025
Infrastructure Engineer
 - **Cloud Infrastructure Support:** Deployed and managed Google Cloud resources (Compute Engine, GPU machines, Storage, VPC) using Python scripts, ensuring 99.9% uptime for AR/VR and AI applications.
 - **Automation & Monitoring:** Developed Python-based automation with Terraform and Ansible; implemented Prometheus/Grafana dashboards to reduce manual work and improve system visibility.
 - **Security & Resource Management:** Configured IAM roles, firewall rules, and Python-driven backup solutions to enhance security and reliability.

ObjectX Innovatech Pvt. Ltd.

- **React Developer (Intern)** Jan 2025 - Present
 - **Frontend Development:** Built ObjectX's web platform from scratch using React.js, delivering a fully mobile-friendly UI. Enhanced load times by 35% and improved responsiveness by 20%, boosting user interaction.
 - **3D AR/VR Application Development:** Currently developing and deploying interactive 3D AR/VR learning tools on Google Cloud XR-Immersive Stream, ensuring smooth streaming for immersive experiences.
 - **CI/CD Implementation:** Set up CI/CD workflows through GitHub, enabling regular weekly releases and maintaining 99.9% service availability while collaborating closely with the dev team to integrate Docker-based deployment.

PROJECTS

- **Levenshtein Visualizer - Edit Distance Fuzzy Search Tool (Live Demo) (GitHub):**
 - Built a web-based visualization tool for the **Levenshtein distance algorithm**, enabling users to trace string edit operations step-by-step with support for customizable operation weights.
 - Implemented a real-time **fuzzy search and spell checker** using Levenshtein distance, showcasing its practical application in intelligent word correction.
 - Built and deployed a fully responsive frontend using **React.js and Tailwind CSS**, ensuring fast load times and seamless cross-device experience.
 - **DocuQuery AI - Document Q&A System (GitHub):**
 - Engineered an AI-powered document analysis system using **FastAPI, Google Gemini 1.5 Flash, and RAG architecture**, enabling natural language conversations with PDF documents and achieving 94%+ response accuracy.
 - Implemented advanced **vector embeddings** with **Sentence Transformers** and **FAISS** for semantic search, delivering sub-second query responses through optimized **cosine similarity** algorithms and intelligent text chunking.
 - Designed production-ready **RESTful APIs** with **Pydantic** validation, **async/await** patterns, and comprehensive error handling, featuring automated PDF processing pipelines and persistent vector storage for scalable document retrieval.

DATA STRUCTURES & ALGORITHM PROFICIENCY

- **Proficiency:** Solved over 280 DSA problems, including 130+ on LeetCode and 150+ on GeeksforGeeks, maintaining an overall accuracy of 80%.

- LeetCode Profile: [YashasR](#)

HONORS AND AWARDS

- **SIH 2024:** Ranked 7th among 300+ teams by building an AI-powered e-commerce platform, improving recommendation speeds by 40%.
 - **SIH 2023:** Placed 33rd out of 230+ teams, recognized for technical innovation.
 - **ALGO Hackathon 2024:** Secured a Top 10 finish out of 250+ participants at Bennett University.
 - **Sandbox Competition:** Won the startup challenge at Jaypee Institute of Technology Noida.

VOLUNTEER EXPERIENCE

- **Geeks For Geeks Club (Multimedia Co-Head & Event Organizer), Bennett University (2023–2024)**: Planned and managed tech workshops for 3,000+ students and hosted coding events (Code Date & Galactic Escape) that drew over 7,000 participants.