Priyanshu Kumar Sharma

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OVERVIEW

Cloud-focused software engineer intern with hands-on experience designing and deploying cloud-native solutions on AWS using serverless compute, containerization, and distributed architectures. Conducted research on cloud performance benchmarking, FaaS systems, and multi-cloud workflows across AWS and Azure. Skilled in building and optimizing backend services using Python and Node.js while leveraging cloud tools for scalability, automation, and reliability. Strong communicator with a passion for cloud platforms, DevOps practices, and solving complex infrastructure challenges.

EDUCATION

Ajeenkya D Y Patil University, Pune   **Aug 2022 - Present**
Bachelor of Technology, Information Technology
- **GPA:** SCGPA: 9.9 (SEM-7) | CGPA: 9.9
- **Coursework:** Cloud Architecture Design, Network Security Labs, DevOps Pipelines

Sri Chaitanya Jr. Kalasala, Hyderabad   **Apr 2020 - May 2022**
Intermediate Education
- **Percentage:** 93.9

Sri Chaitanya High School, Hyderabad   **Apr 2019 - Mar 2020**
Higher Secondary Education
- **Percentage:** 87.6

EXPERIENCE

Marquardt India Pvt. Ltd.   **Jun 2025 - Sep 2025**
Web Dev Intern   *Pune*
- Selected as a Web Development Intern to apply software engineering experience to frontend development, UI/UX enhancements, and full-stack feature implementation in ongoing projects.
- Developing and maintaining responsive web interfaces using HTML5, CSS3, JavaScript (ES6+), EJS templates, MySQL, and Express.js, ensuring adherence to established design systems and coding standards.
- Collaborating with senior developers using Git/GitHub to perform unit testing, debugging, and performance tuning of web applications, with a focus on cross-browser compatibility and optimized load times.
- Working with the IT & Automation team to maintain internal dashboards, integrate data-driven components, and streamline workflow processes through automation and database-driven solutions, demonstrating passion for learning by adopting new cloud services and DevOps tools.

Seamless Education and Services (Seamedu) Pvt. Ltd.   **Mar 2025 - Jun 2025**
IT Intern– Placement Coordinator, IT Department   *Pune*
- Selected as a Trainee Intern in the Information Technology Department at Seamedu School of Pro-Expressionism, with responsibilities encompassing IT infrastructure exposure, software tools utilization, and process optimization to support departmental objectives.
- Coordinating end-to-end placement activities for the IT Department, including scheduling recruitment drives, managing candidate databases, preparing technical reports, and tracking hiring metrics.
- Facilitating structured communication between students, faculty, and industry recruiters by leveraging digital collaboration platforms, cloud-based data sharing tools, and automated notification systems, demonstrating excellent communication skills to work cross-functionally and across departments.
- Supporting the integration of IT solutions into placement processes to improve operational efficiency, data accuracy, and stakeholder engagement.

Indian Institute of Technology Ropar, Punjab   **May 2024 - Jul 2024**
Cloud Research Intern   *Rupanagar, Punjab*
- Engaged in advanced research initiatives under the mentorship of an IIT professor, focusing on distributed computing and serverless architectures.
- Implementing XFBench and XFaaS frameworks, involving setup, configuration, and validation of benchmarking tools for Function-as-a-Service (FaaS) environments.
- Designing and deploying serverless function implementations using modern cloud-native platforms, with emphasis on scalability, modularity, and low-latency execution.
- Conducting in-depth performance profiling, bottleneck analysis, and optimization of serverless workloads, leveraging benchmarking metrics, instrumentation tools, and workload simulation techniques.
- Selected as part of the prestigious Summer Research Fellowship Program 2024 by the Indian Academy of Sciences, enabling hands-on exposure to cutting-edge cloud computing and performance engineering research.

PROJECTS

Storage SaaS Platform

I built a **Software-as-a-Service (SaaS) platform** leveraging AI to provide automated business solutions for modern video management. The platform utilizes a robust tech stack, including **Next.js 14** for the frontend framework, **TypeScript** and **JavaScript** for application logic, and **Tailwind CSS** for responsive styling. For secure user authentication, it integrates **Clerk**, while **Prisma ORM** with **Neon DB (PostgreSQL)** manages the database. **Cloudinary** is used for scalable video storage and optimized delivery, and the platform is deployed seamlessly on **Vercel**. AI is harnessed to automate business workflows and enhance video-related operations, creating an efficient, scalable, and user-friendly solution. [GitHub](#)

Quantum Cloud Integration

I developed a **hybrid cloud-quantum system** that seamlessly integrates classical cloud computing with quantum processing to achieve enhanced computational efficiency. The workflow enables interoperability between traditional cloud services and quantum systems, providing secure and scalable solutions. This hybrid architecture is implemented using **AWS** for cloud infrastructure, **IBM Quantum** for quantum resources, and **Docker** for containerization, ensuring flexible deployment and robust integration across platforms. [GitHub](#)

Rural Gyan Platform

I developed a comprehensive **full-stack educational management system** featuring role-based dashboards, integrated AI-powered tools, and bilingual (English/Hindi) support. The platform offers streamlined admin, teacher, and student workflows, including live virtual classes, automated quiz grading, real-time analytics, AI-assisted tutoring, and activity monitoring. The tech stack includes **React.js** and **Tailwind CSS** for the frontend, **Node.js**, **Express.js**, and **Socket.io** for the backend, and **MongoDB** for data storage. Secure authentication is implemented using **JWT**, with AI functionalities powered by **OpenAI API** and **TensorFlow.js**. Translation is enabled via the **Google Cloud Translate API**, and the system is deployed using **Docker** and **Nginx** for scalability and reliability. [GitHub](#)

XAI Interpret

I developed **XAI Interpret**, a hands-on platform for model interpretability that implements state-of-the-art Explainable AI (XAI) techniques using SHAP and LIME. The project provides a complete machine learning pipeline, from data preprocessing and model training to real-time, interactive explanations for individual predictions. Supporting various ML algorithms, the system helps users understand both global and local model behavior, feature interactions, and produces rich visualizations for interpretability. Built for practical use, it's compatible with Google Colab and supports cloud deployment on Vertex AI, featuring production-ready model persistence, scalable architecture, and comprehensive LaTeX documentation. This solution fosters transparency and trust in machine learning models, making it especially valuable for black-box medical diagnostics and other high-stakes domains. [GitHub](#)

SkyVault

I built a **personal cloud storage system** using Docker containers, featuring an interactive user interface for seamless file management. The platform supports file uploading, listing, and downloading functionalities, while Dockerized deployment ensures easy scalability. Secure authentication mechanisms and robust data storage practices safeguard user data, making the system both efficient and secure for personal cloud storage needs. [GitHub](#)

TECHNICAL SKILLS

- **Cloud Services**: AWS Console Management, Azure Portal Management, Google Cloud Platform
- **DevOps Tools**: Git/GitHub, Terraform, Pulumi, GitLab, Redis, Docker
- **Programming Languages:** Java, Python, Dart, SQL, Shell Scripting
- **Development**: HTML, CSS, Tailwind CSS, JavaScript, Node.js, Express, EJS
- **CS Fundamentals**: DSA, DBMS, OS, CN
- **Course Activities**: Cloud Architecture Design, Network Security Labs, DevOps Pipelines
- **Professional Attributes**: Software Engineering Experience, Passion For Learning
- **Soft Skills**: Effective communication, problem-solving, time management, critical thinking, collaboration

CERTIFICATIONS

- **Fortinet Certified Fundamentals in Cybersecurity:** Fortinet
- **Fortinet Certified Associate in Cybersecurity:** Fortinet
- **Fundamentals of Cybersecurity (EDU-102):** Zscaler
- **Zero Trust Certified Associate (ZTCA):** Zscaler
- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate:** Oracle
- **AWS Services for Solutions Architect Associate:** Udemy

ROLES AND RESPONSIBILITIES

Open Source Contributor — Open Source Contribution India   **Aug 2025 - Sept 2025**
Contibutor

As an active open-source contributor with Open Source Contribution India, I have collaborated on community-driven software projects, engaging in code development, issue resolution, and peer reviews. My contributions have supported project growth and fostered innovation, while enhancing collaboration within the Indian open-source ecosystem.

Happier and Safer Internet Club — Cyber Security Awareness Club   **Oct 2023 - Oct 2024**
Core Member

As a founding member of the HSI Club, I actively participated in the UNESCO MIL 2023 Youth Hackathon and contributed to organizing debate competitions and cybersecurity awareness camps. I consistently promoted knowledge sharing about cyber-crimes and played a key role in spreading cybersecurity awareness within the community.

Matheletes — Maths Club   **Mar 2023 - Jul 2024**
Vice President

As a founding member of the Maths Club, I played a key role in designing and implementing innovative quiz formats and project display setups to engage participants. I actively collaborated with faculty and other student organizations to secure necessary resources, fostering a supportive environment for club activities. Leveraging digital tools for event planning and management, I ensured seamless logistics and provided real-time updates, greatly enhancing the experience for all participants.

LANGUAGES

- English
- Hindi
- Gujarati

AWARDS

- **Seamedu Awards 2025:** Creative Cloud Integration Award
- **SOF International Mathematics Olympiad:** School Rank: 3rd (2019)
- **IBM ICE Day Ideathon 2025:** Bronze Medal