

RAHUL SINGH SHEKHAWAT

SOFTWARE & CLOUD ENGINEER

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SUMMARY

Cloud & Software Engineer with 3+ years of experience designing, developing, and deploying scalable web applications and cloud infrastructure. Proficient in Node.js, Python, React, and MongoDB, with strong expertise in AWS services including EC2, Lambda, S3, RDS, Athena, and QuickSight. Experienced in building REST APIs, backend systems, and production-ready cloud architectures, along with implementing CI/CD pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy. Passionate about cloud optimization, infrastructure reliability, and performance-focused system design, with experience building cloud tools and SaaS platforms.

CORE SKILLS & TOOLS

- **Programming:** JavaScript, TypeScript, Python, PHP
- **Frontend:** HTML, CSS, React.js, Next.js, Redux, TailwindCSS, Bootstrap
- **Backend:** Node.js, Express.js, REST APIs
- **Databases:** MongoDB, MySQL, PostgreSQL, DynamoDB
- **Cloud & DevOps:** AWS (EC2, Lambda, S3, API Gateway, IAM, CloudWatch, Athena, QuickSight), Docker, CI/CD
- **AI & Emerging Tech:** Large Language Models (LLMs), AI Integration, Agentic AI Concepts
- **Tools:** Git, GitHub, Jira, Miro
- **Security:** OAuth, JWT Authentication

PROFESSIONAL EXPERIENCE

Full-Stack Developer | Envint Services LLP | Internship

Nov 2023 - Present

- Developed scalable **backend services and REST APIs** using **Node.js and Express.js**, improving system performance by **20%** and supporting high-concurrency workloads.
- Designed optimized **NoSQL data models in DynamoDB**, implementing indexing strategies that reduced data retrieval time by **15%**.
- Built and maintained **CI/CD pipelines on AWS** using **CodePipeline, CodeBuild, and CodeDeploy**, automating deployments and reducing release cycles by **30%**.
- Managed **AWS infrastructure** including **EC2, S3, Lambda, IAM, and CloudWatch** to maintain secure and reliable production environments.
- Implemented **data analytics pipelines using Athena and QuickSight**, enabling real-time operational dashboards.
- Integrated **AI capabilities using Large Language Models (LLMs)** with **Retrieval-Augmented Generation (RAG)** and **MongoDB Atlas Vector Search**, enabling intelligent insights and automated analysis within an investor monitoring tool.

Software Engineer Intern | Finquant Technologies Pvt Ltd | Internship | 2 Months

Aug 2023 - Sep 2023

- Developed interactive **web pages using ASP.NET, C#, and JavaScript**, improving UI responsiveness and user experience.
- Identified and resolved **100+ bugs in .NET applications**, addressing logic, performance, and compatibility issues to improve system stability.
- Built a **cross-platform jewelry marketplace mobile app** using **React Native and Node.js**, enabling users to buy, sell, and rent products.
- Designed and implemented **REST APIs for listings, product categories, and transactions**, ensuring seamless integration between mobile frontend and backend services.

Full-Stack Web Developer Intern | PIEDS BITS Pilani – DEDSO (Startup) | Internship

2023

- Rebuilt backend services for an **event management platform** using **Node.js and Express.js**, developing scalable **REST APIs** to connect colleges and companies for event coordination.
- Implemented **dynamic multi-form submission workflows with JavaScript and MongoDB**, enabling real-time validation and efficient data processing.
- Optimized backend performance and database operations, improving **platform responsiveness and data handling for high-volume submissions**.

Backend Developer Intern | PIEDS BITS Pilani – DreamSync (Startup) | Internship

2023

- Built a **secure media storage system** using **AWS S3, AWS Lambda, and REST APIs** for scalable file uploads and access.
- Generated **150+ pre-signed URLs per day** to enable secure, time-limited media sharing.
- Optimized upload and download workflows to improve **system reliability and storage efficiency**.

Full-Stack Developer | Freelance | Self-Employed

2022 - 2024

- Delivered **web applications and platforms for 10+ clients** using **Node.js, React, MongoDB, and Express.js**.
- Developed solutions including a **transport booking platform, referral system with JWT authentication, and custom business websites**.
- Built responsive user interfaces and backend services supporting **real-time interactions, secure authentication, and scalable APIs**.
- Managed **end-to-end development lifecycle**, including deployment, client requirements, and feature delivery.

PROJECTS

PulseGuard – AI-Powered Server & Website Monitoring Platform

[Link](#)

Node.js, Python, Redis, React, AWS (EC2, S3, Route 53)

- Built a real-time monitoring platform for websites and servers with features including uptime tracking, DNS monitoring, SSL expiry alerts, and SEO health checks.
- Integrated AI-driven insights and analytics dashboards to detect anomalies and recommend performance optimizations.
- Implemented EC2 monitoring and control features, allowing users to manage infrastructure directly from the platform.
- Designed a tiered SaaS subscription system with usage limits, alerts, team features, and secure payments via PayU gateway.

SubTrackHub – AI-Powered Cloud & SaaS Cost Optimization Platform

[Link](#)

Node.js, React, MongoDB, AWS, LLMs

- Built a platform to **analyze cloud and SaaS infrastructure usage**, identifying idle resources and operational waste to improve cost efficiency.
- Integrated **AI-powered analysis using Large Language Models (LLMs)** to generate infrastructure insights, efficiency scores, and actionable optimization recommendations.
- Developed backend services and APIs to **scan infrastructure configurations, track resource utilization, and surface cost anomalies**.
- Implemented features such as **cloud efficiency scoring, infrastructure diagnostics, and automated insights dashboards**.

VidVerbalize – AI Short-Form Video Generator

[GitHub Link](#)

Node.js, AI APIs, Video Processing Tools

- Built a tool that converts **YouTube and external videos into short, captioned clips** optimized for **Reels, Shorts, and social media formats**.
- Implemented **AI-based transcription and caption generation** to automatically extract highlights and generate subtitles.
- Integrated **video processing APIs** for trimming, formatting, and resolution optimization.
- Enabled creators to **repurpose long-form content into engaging short videos** quickly.

NFT Showcase Platform

AWS (S3, Route 53), HTML, CSS, JavaScript

- Developed a **responsive NFT showcase website** featuring curated collections and crypto-related content feeds.
- Hosted the platform on **AWS S3 with Route 53 domain routing** for scalable and reliable static site delivery.

EDUCATION

- **Bachelor of Science in Computer Science (Final Year)** Batch 2023
Birla Institute of Technology & Science, Pilani
- **ADVANCE DIPLOMA IN COMPUTER PROGRAMMING (ADCP)** 2021
Rajeev Gandhi Computer Saksharta Mission, Satnali

CERTIFICATIONS

- **Full-Stack Web Developer – Udemy**
Issued: June 2024 | Credential ID: UC-b69203e3-7711-4f7b-8f1f-b8cd10917ece
- **AWS S3 Basics – Coursera Project Network**
Issued: September 2023 | Credential ID: YPL3X4P3DJT2
- **AWS CloudFront: Serve Content from Multiple S3 Buckets – Coursera**
Issued: August 2023 | Credential ID: 82GMFSB7MKY5
- **Configuring Your IDE for Absolute Beginners with AWS Cloud9 – Coursera**
Issued: August 2023 | Credential ID: IW99GBRRCV FY
- **Web Development – Certificate of Training**
- **Fundamentals of Digital Marketing – Google Digital Garage | Certificate of Completion**

LANGUAGES

Hindi, English