

Royston Cyprian Dsouza

 dsouzaroy |  Royston Dsouza |  devroys.in |  dsouzaroy111@gmail.com |  7996876148

SUMMARY

Results-driven Cloud Backend Engineer with 3 years' experience, specializing in Nodejs, Reactjs, AWS, Docker, and AI agent development for scalable application deployment.

WORK EXPERIENCE

Chipsy IT Services pvt ltd.

Full-Stack Developer (Node.js, React, AWS)

Dec 2022 - present

- Led a backend development team to architect and deploy a popular high-traffic newspaper application and website, implementing real-time content delivery through Server-Sent Events and WebSocket protocols, with Redis caching layer for optimized performance
- Designed and developed a full-stack Guesthouse Booking Management System using React.js, Node.js, TypeScript, Express.js, and MongoDB, supporting both offline and online modes with seamless data synchronization via MongoDB change streams.
- Optimized database and queue architecture achieving sub-200ms MongoDB response times through composite indexes, sharding strategies, and aggregation pipelines, while implementing Redis Queue to process 3,000+ asynchronous tasks daily, improving application responsiveness by 40
- Engineered and managed AWS cloud infrastructure leveraging EC2 for compute resources, S3 for object storage, VPC for network segmentation, and IAM for security, implementing least privilege access controls and protecting critical resources.
- Built and maintained CI/CD pipelines using GitHub Actions and AWS CLI, automating build and deployment workflows, reducing deployment time by eliminating manual intervention and accelerating release cycles.

PROJECTS

PDF-RAG System

[Link to Demo](#)

Built a scalable PDF Retrieval-Augmented Generation (RAG) system using Node.js, Express.js, MongoDB, LangChain.js, and Google Gemini 2.5 AI, implementing vector embeddings and custom similarity search algorithms for semantic document retrieval, intelligent content chunking, and context-aware question answering with RESTful APIs supporting multiple concurrent users and scope validation to ensure response accuracy.

SKILLS

Languages & Frameworks: JavaScript, TypeScript, Node.js, Express.js, React.js, HTML, CSS

Database & Caching: MongoDB, MySQL, PostgreSQL, Redis

AI & ML Tools: LangChain, LangGraph

Containers & Orchestration: Docker, Docker Compose

Version Control & CI/CD: Git, GitHub, GitLab, GitHub Actions

Cloud Services: AWS (EC2, ECS, S3, IAM, Lambda, ECR, CloudFront, CDK, VPC)

EDUCATION

2019 - 2022 Bachelor's Degree at **Milagres Degree college**

(CGPA: 7.0)