

RAHUL REDDY CHIDIPUDI

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SUMMARY

- Software engineer with about 1 year of hands on experience building and running backend services on **AWS** with **Java**, **TypeScript**, **PostgreSQL**, **DynamoDB**, and **RDS**.
- Tend to live close to the data, poking at **PostgreSQL**, **RDS**, and **DynamoDB** schemas, query plans, and cache layers until reads and writes behave under real traffic.
- Usually the one wiring things into **API Gateway**, **Lambda**, **S3**, and **CloudWatch**, adding alarms, dashboards, and runbooks so on call feels like engineering, not guessing.
- Have a habit of taking fuzzy requirements and weird edge cases, turning them into clearer APIs and fault tolerant flows, then leaning on tools like **GitHub Copilot**, **AWS CodeWhisperer**, and Cursor without ever trusting them more than careful code review.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, TypeScript, SQL.
- **AWS:** EC2, S3, RDS, DynamoDB, Lambda, API Gateway, CloudWatch.
- **Datastores:** PostgreSQL, MySQL, Amazon RDS, Amazon DynamoDB, Redis.
- **Backend:** Spring Boot, Node.js, Express
- **Messaging:** Amazon SQS, Amazon SNS, Kafka.
- **APIs:** REST, gRPC, OpenAPI / Swagger.
- **Dev Tools:** Git, GitHub, IntelliJ IDEA, VS Code, Postman.
- **Build & CI:** Maven, Gradle, npm, GitHub Actions.
- **Containers:** Docker.
- **Observability:** Amazon CloudWatch, Prometheus, Grafana.
- **Data & ETL:** Amazon S3, AWS Glue.
- **AI Productivity:** GitHub Copilot, Amazon CodeWhisperer.

WORK EXPERIENCE

Software Development Engineer

Appworks

[Mar 2025 – Dec 2025]

Pittsburgh, Pennsylvania

- Owned a small backend service from design to prod, wiring it into API Gateway, Lambda, and DynamoDB so other teams could hit it safely.
- Worked with product and ops folks to clarify weird edge cases, then baked those into our RDS schema changes and API contracts instead of guessing.
- Spent a lot of time chasing slow queries on RDS, adding better indexes and a few read patterns so peak traffic felt less terrifying.
- Hooked our services up to CloudWatch alarms and dashboards, tuned thresholds a bunch of times until on-call was about real issues, not noisy CPU blips.
- Broke a chunky data processing job into smaller async pieces using Lambda and S3 so retries were cheap and partial failures did not block everything.
- Did regular code reviews for our Java and TypeScript services, mostly pointing out test gaps, confusing naming, and risky error handling around downstream timeouts.
- Documented deployment runbooks and common failure modes for our EC2 and API Gateway stack so new engineers could debug basic production issues without paging half the team.

Junior Software Engineer Intern

Wessco.

[June 2024 – Sep 2024]

Pittsburgh, Pennsylvania

- Normalized a bunch of tables in PostgreSQL for a SaaS backend, cut out a lot of duplicate rows and made the relationships actually make sense.
- Used EXPLAIN ANALYZE, tcpdump, netstat, traceroute and piles of logs to chase down slow requests in a distributed setup, mostly query plans and a couple of noisy network hops.
- Wrote AWS Lambda functions in Python for recurring data jobs and ETL style stuff, hooked them up to events and schedules so the ops team stopped running those scripts by hand.
- Got hands on with AWS RDS read replicas, DynamoDB, S3 hooks and CloudWatch graphs, wiring them into a small set of microservices and pushing them through our usual deploy flow.
- Sat in code reviews, left comments, cleaned up my own PRs and kept notes in internal docs, mostly around how we were using gRPC and patterns in the distributed pieces.
- Leant on GitHub Copilot, AWS CodeWhisperer and Cursor while building backend APIs and refactoring some hot paths, still double checked everything by reading the generated code line by line.
- Joined senior engineers for architecture chats about scaling the platform, asked too many questions about caching and data ownership, ended up sketching a few changes that made the system less fragile.

Summer Research Analyst

[May 2022 – Aug 2022]

Corefront Technologies Private Limited

Bengalore, India

- Picked apart enterprise infra diagrams and cloud migration plans for big clients, pointed out where the cloud spend and complexity were getting out of hand.
- Deep dive into database metrics and node-level logs for a large distributed setup, found a few nasty chokepoints in the query paths and network fan-out, sketched out how to untangle them.
- Put together a messy but usable set of internal notes on AWS cost patterns, DB scaling tricks, and general distributed systems sanity checks for the consulting teams.
- Sat in the room with consultants and client execs, translated the low level performance and architecture findings into slides and plain language they could argue about.
- Spent time reading up on newer cloud services and architectures, mostly around how teams were using managed databases and streaming tech, fed that into internal tech briefs and a couple of thought pieces.

LEADERSHIP EXPERIENCE

Tech Coordinator | Association for Computing Machinery [ACM] – Rowan University [May 2024 – Oct 2024]

- Spearheaded digital outreach initiatives, increasing event attendance by 30% through targeted social media campaigns and workshops.
- Led technical workshops on distributed systems, cloud architecture, and AWS services (EC2, Lambda, RDS) for 100+ students.

Graphic Designer & Event Coordinator | Google Developer Student Club - LPU [Feb 2022 – Nov 2022]

- Designed visual materials and graphics for 15+ technical workshops on cloud technologies, coordinated events engaging 100+ participants.
- Created technical documentation designs and workshop promotional materials; enhanced content delivery through professional visual design and event organization.

Public Speaker & Event Coordinator | Orator Student Club -- LPU [Dec 2021 – Jun 2022]

- Coordinated 10+ technical events and guest lectures focused on different software practices.
- Delivered presentations on Leadership Principles (Customer Obsession, Ownership) and their application in building scalable systems.

PROJECTS

Scalable Task Management System (Capstone)

- Engineered a PostgreSQL based distributed system with Redis caching, handling over 100 concurrent users while keeping latency under 200ms during peak times.
- Set up monitoring with CloudWatch and custom dashboards to keep an eye on system health and performance, which helped in maintaining a 99.5% uptime.
- Designed fault-tolerance features like automatic recovery and graceful degradation to ensure the system stayed resilient under load.

Database Optimization for E-Commerce Platform

- Refactored the database schema and tweaked queries with indexing and caching, which cut down latency by about 35% for a busy e-commerce site.

- Set up performance monitoring using CloudWatch to catch issues early and keep optimizing the system as traffic grew.

Financial Document Query System with RAG

- Built a cloud-native backend using AWS Lambda, Kendra, and S3, creating a retrieval-augmented generation pipeline for financial documents.
- Improved retrieval accuracy by 25% through prompt tweaks and fine-tuning of multiple LLM models like GPT-3.5-turbo and LLaMA 2.
- Automated financial metric calculations for decision-making, which involved juggling different models and ensuring smooth integration.

EDUCATION

Rowan University

New Jersey, USA

Bachelor of Science in Computer Science

[Graduated: Dec 2024]

Merit Based International Credit Transfer Scholarship Recipient from **Lovely Professional University**.

Relevant Coursework: Database Systems, Cloud Computing, Distributed Systems, Data Structures & Algorithms, System Design, Software Engineering, Microservices Architecture, AI, Machine Learning.

CERTIFICATIONS

- **AWS Certified Developer – Associate.**
- 50+ LeetCode Problems Solved – **SQL & Data Structures/Algorithms**.
- **Machine Learning Specialization** – (Stanford Online & DeepLearning.AI).
- **IBM Enterprise Design Thinking Practitioner.**
- **Google Certifications:** Data Analytics Foundations, Project Management Foundations.