

# Rahul Kumar

Backend developer

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[LinkedIn](#) | [Github](#)

## SUMMARY

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As a Backend Developer with extensive Node.js, JavaScript, and TypeScript expertise, I architect and implement robust, scalable server-side applications by designing RESTful APIs with Express and writing clean, type-safe code. I leverage AWS Lambda for serverless microservices, provision and manage EC2 instances for containerized workloads, and optimize data storage and access with RDS databases. I follow Agile methodologies—participating in sprint planning, CI/CD pipelines, and code reviews—to ensure rapid delivery, high performance, comprehensive error handling, security hardening, monitoring, and maintainable architectures tailored to business needs.

## SKILLS

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- JavaScript, TypeScript, Node.js, AWS (Lambda, EC2, RDS), Agile, REST API

## WORK EXPERIENCE

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### Backend developer

May 2022 - February 2025

#### Tata Consultancy Services

Noida

- Built and maintained scalable, secure server-side applications using Node.js, JavaScript, and TypeScript, leveraging Express.js for RESTful API development.
- Deployed and managed microservices using AWS Lambda for serverless functions and EC2 for containerized workloads, ensuring high availability and auto-scaling.
- Designed and optimized relational databases on AWS RDS, implementing efficient schemas, indexing, ACID-compliant transactions, and connection pooling for robust data access.
- Followed Agile methodologies—participating in sprint planning, integrating automated tests and CI/CD pipelines, and conducting code reviews—to deliver reliable, maintainable backend systems.

## PROJECTS

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### Eldeco, Ultimatix, TCS ion

May 2022 - February 2025

- Architected and deployed a highly available, scalable back-end using Node.js and TypeScript, leveraging AWS Lambda for serverless functions and EC2 for containerized workloads to optimize performance and cost.
- Designed and implemented RESTful APIs with Express.js, structuring routers, implementing middleware for JSON parsing, input validation, authentication and authorization, and centralized error handling.
- Modeled and optimized relational schemas in AWS RDS (MySQL/PostgreSQL), applying normalization, indexing, ACID-compliant transactions, and connection pooling to maximize database throughput.
- Applied asynchronous programming patterns (async/await, Promises) and leveraged clustering and load-balancing strategies to ensure efficient request processing under high concurrency.

## EDUCATION

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### Techno main salt lake (Kolkata)

May 2017 - August 2021

B.TECH - Computer Science and Engineering

UNWEIGHED\_CGPA: 7.79

## CERTIFICATIONS

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### Web Development Training - Certificate of Completion\_Internshala Trainings

December 2022 - February 2023