

# Roshan Kumar Jha

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## PROFESSIONAL SUMMARY

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Accomplished **Node.js Developer** and **Backend Engineer** with over 2 years of experience, specializing in **Node.js**, **microservices**, and **RESTful API development**. Expert in building **scalable, high-performance** backend systems using **Express.js**, **MongoDB**, and containerized environments like **Docker** and **Kubernetes**. Adept at optimizing **database performance**, integrating **third-party APIs**, and implementing **CI/CD pipelines** for seamless deployments. Committed to delivering **robust, efficient** solutions in agile settings, with a focus on backend excellence.

## TECHNICAL SKILLS

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- **Backend Development:** Node.js, Express.js, JavaScript, ES6, RESTful APIs, MongoDB, NoSQL, JSON
- **Database Management:** MongoDB Aggregation, NoSQLBooster, MongoDB Compass
- **Microservices & DevOps:** Microservices, Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD
- **Cloud Technologies:** AWS S3, AWS EC2, Amazon Web Services, Nginx
- **API Development & Testing:** Postman, JWT Authentication, REST
- **Testing Frameworks:** Mocha, Jest, Unit Testing
- **Version Control:** Git, GitHub
- **Monitoring Tools:** Grafana, Prometheus
- **Collaboration:** Agile, Scrum, Jira

## EXPERIENCE

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- **DynPro Payroll under IBM** Pune, India  
*Software Engineer (Node.js/Backend)* February 2024 - Present
  - Pioneered the development of **7 microservices** for the IBM DXL project (client: Vodafone), leveraging **Node.js** and **Express.js** to deliver **scalable backend solutions**.
  - Designed and optimized **RESTful APIs**, improving integration efficiency by 25% and supporting seamless **third-party API** connectivity.
  - Deployed **microservices** using **Kubernetes** and **Docker**, reducing system downtime by 15% and enhancing **backend scalability**.
  - Implemented **real-time monitoring** with **Grafana** and **Prometheus**, ensuring 99.9% uptime for critical backend systems.
  - Automated **CI/CD pipelines** with **Jenkins**, accelerating deployment cycles by 30% and minimizing manual errors.
  - Optimized **MongoDB Aggregation** queries, slashing data retrieval times by 20% for high-volume datasets.
  - Validated **API performance** with **Postman**, achieving 98% test coverage and ensuring **backend reliability**.
  - Architected **10+ MongoDB collections**, boosting **database performance** and **scalability**.
  - Wrote **15+ unit tests** using **Mocha**, guaranteeing **robust backend functionality** with zero critical defects.
- **HIH7 WEBTECH PVT. LTD** Kolkata, India  
*Node.js Developer* January 2023 - February 2024
  - Built **secure backend services** for the HIH7 Website using **Node.js** and **Express.js**, enhancing **performance** and user experience.
  - Implemented **JWT authentication**, strengthening security for **backend APIs** and user data.
  - Developed **RESTful APIs**, enabling efficient **frontend-backend integration** and reducing latency by 15%.
  - Integrated **AWS S3** for **scalable storage**, supporting high-traffic image uploads with 99.9% reliability.
  - Optimized **22+ MongoDB collections**, improving **database efficiency** by 18% for rapid data access.
  - Deployed applications with **Nginx** and **AWS EC2**, ensuring **high availability** and **backend performance**.
  - Streamlined **CI/CD processes** with **GitHub Actions**, cutting deployment time by 25%.

## EDUCATION

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- **Academy Of Technology** West Bengal, India  
*B.Tech in Information Technology* Graduated: 2022
  - CGPA: 9.14