Divyanshu Singh

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EXPERIENCE

Software Engineer **New Delhi, India**
The Algorithm *Jan 2025-present*

- Pioneered scalable backend architectures for three distinct platforms, including Quantafi (fintech), ProAssurance (risk management), and SSEC (construction), utilizing Node.js, TypeScript, MongoDB, PostgreSQL, and AWS services.
- Orchestrated resilient data models and workflows featuring conflict-resolution logic; decreased error rate by 15%, leading to improved data consistency across the fintech platform, and resulting in faster processing of transactions.
- Implemented CI/CD pipelines, automated notifications, and scheduling modules, reducing release time by 50% and improving operational efficiency.

Software Developer Engineer (Intern) **Bangalore, India**
MathonGo *June 2024-Present*

- Designed and implemented a recap feature to handle millions of users, delivering weekly and monthly recaps. Optimized data aggregation and recap processes using MongoDB and Node.js with Promises, bulk operations, and p-limit, reducing query times by over 40%.
- Developed APIs for user data analysis, integrated Redis caching to boost retrieval speed by 30%, and conducted comprehensive API testing, achieving 98% coverage for critical functionalities.
- Architected and integrated monitoring and retry mechanisms with AWS SES, SNS, and Msg91, boosting system resilience by 50%. Isolated cron jobs to a dedicated repository to eliminate redundancy across 5 EC2 instances, improving scalability by 40%, and automated deployment to EC2 using GitHub workflows.

Software Developer Engineer (Intern) **Gurugram, Haryana**
ARENESS *Nov 2023-Feb 2024*

- Orchestrated cross-functional collaboration between Areness frontend and backend teams to develop a high-performance email automation application using AWS SES, AWS SNS, React, Node, and MongoDB, resulting in a 40% increase in email engagement metrics.
- Leveraged web scraping techniques to automate data collection, reducing manual effort by 80% and saving the team an average of 15 hours per week.
- Created a scalable, secure Database Management App on AWS S3 at Areness, collaborating with frontend and backend teams. Achieved 50% lower storage costs and a 30% boost in system performance.

PROJECTS

TRIPTIDE | *MongoDB, ExpressJS, React, NodeJS* ◯

- Engineered TRIPTIDE, a full-stack ride-sharing application using the MERN stack, focusing on seamless user experiences. Integrated geospatial queries in MongoDB, improving ride retrieval efficiency and enhancing overall query performance.
- Developed a secure backend with Node.js, implementing JWT authentication to ensure data privacy and secure user interactions across the platform.

SUDOKU-SOLVER | *Java, DSA, GitHub* ◯

- Designed a Java-based Sudoku Solver utilizing advanced backtracking algorithms to solve puzzles efficiently.
- Created a Sudoku puzzle generator, offering fresh challenges with each iteration and improving problem-solving.
- Applied robust problem-solving skills to ensure valid puzzles, enhancing algorithmic thinking and Java proficiency.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript
Frameworks & Libraries: React, Node.js, Express.js
Cloud & DevOps: AWS (EC2, S3, SES, SNS, SQS)

EDUCATION

MAHARSHI DAYANAND UNIVERSITY (MDU) **New Delhi, India**
Bachelor of Technology in Computer Science | CGPA: 8.1 *Aug 2020-Aug 2024*