

Aman Tyagi

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 github |  linkedin

SKILLS SUMMARY

Languages Javascript | TypeScript | Go | C++ | Java | Python | SQL | Bash

Libraries Node.js | Next.js | React.js

Technologies MongoDB | PostgreSQL | MySQL | | Kubernetes | Docker | AWS | Terraform | Redis | Elasticsearch

EXPERIENCE

Playo

Sep 2024 - Present

Software Engineer

Bangalore

- Engineered a real-time Leaderboard System using a dense ranking algorithm with tiered Redis caching, reducing response times from 4.5s to 50ms. Leveraged MongoDB aggregation pipelines for multi-filter support, including sports-specific and friends-only rankings.
- Executed live migration of chat functionality to SendBird, ensuring zero downtime. Integrated SendBird's platform APIs and seamlessly transferred active user data with full backend coverage.
- Integrated MongoDB Atlas Search with geospatial querying to optimize search operations, decreasing query latency from 4 seconds to under 1 second, significantly improving user experience.
- Designed and implemented a new User Information Collection system capturing metrics like joining year, games booked, and friends made. Migrated 600,000+ users' data from 3 collections within 50 minutes while ensuring data integrity.

Skills: Node.js, MongoDB, Redis, SendBird, TypeScript, JavaScript, Aggregation Framework, Atlas Search, System Design, Performance Optimization

Teal India

Feb 2023 - Aug 2024

Software Developer Intern & Software Developer

Bangalore

- Developed an automated legal reporting framework, extracting data from diverse legal forms to generate over 350 reports per day, streamlining legal operations.
- Constructed real-time analytics dashboards using Socket.io and introduced sticky-session support for Web-Socket scaling across distributed servers.
- Designed and launched a custom ReactJS library for PDF highlighting with OCR support and intuitive page navigation, enhancing legal document workflows.
- Refactored the core application architecture and reengineered compute-heavy logic, reducing processing latency by 50%. Employed Next.js SSR with advanced TypeScript patterns and modular Node.js microservices.
- Architected a frontend visualization framework using custom React hooks, enabling interactive dashboards that improved analytical insight and boosted user engagement by 25

Skills: React.js, Node.js, TypeScript, Socket.io, MongoDB, PDF.js, OCR, Next.js, System Architecture, SSR, Microservices, Real-time Systems, Data Visualization

Recruit CRM

Oct 2022 - Jan 2023

DevOps Engineer Intern

Remote

- Achieved a 75% increase in outbound traffic by enabling NAT Gateway Elastic IP whitelisting, improving platform accessibility and routing.

Skills: AWS, Networking, Infrastructure Optimization, NAT Gateway, System Configuration

Duckcart

Aug 2022 - Sep 2023

Software Engineer Intern

Remote

- Directed backend development efforts, leading the engineering team to design and deploy scalable services using Node.js and JavaScript, establishing a high-performance backend foundation.

Skills: Node.js, JavaScript, Leadership, Team Coordination, Backend Architecture, Scalable Systems

Sarv

Feb 2022 - Jul 2023

Software Engineer Intern

Remote

- Reduced Elasticsearch query latency by 30% through advanced query optimization. Authored and published custom NPM packages to streamline common backend operations.

Skills: Elasticsearch, Node.js, NPM, Backend Optimization, Query Performance

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University

2019 - 2023

Bachelor of Technology - Computer Science and Engineering; GPA: 8.23

Lucknow, India

- Relevant Coursework: Operating Systems, Data Structures, Software Engineering, Computer Networks, Cloud Computing, Web Mining, DBMS, NoSQL Databases, OOPS in Java, Python Programming, Design-Analysis of Algorithms