HARSHIT SINGH

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SUMMARY

Results driven Software Engineer with 2+ years of hands-on experience specializing in backend-development using Node.js. Skilled in designing, building, and maintaining scalable APIs, microservices and server-side logic. Proficient in Javascript /Typescript, Express.js and modern development practices including RESTful architecture, version control(GIT) and CI/CD workflows. Adept at collaborating in agile teams to deliver high-quality, maintainable code that supports business goals.

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY   Mumbai, India
Bachelor of Technology – Chemical Engineering   August 2023

WORK EXPERIENCE

SMARTHELIO (YC W22)   Noida, India
Software Development Engineer   August 2023 – Present
- Built a full-stack service to extract insights from MongoDB-stored client data and export them as CSV files. Implemented targeted indexing strategies, accelerating query performance and reducing UI load times from 15 seconds to 3 seconds, enhancing overall user experience.
- Re-engineered a high-load Data-Import service in TypeScript, integrating interceptors and caching strategies. Reducing task duration from 7–8 minutes to under 60 seconds and optimizing resource usage from 3GB CPU/6GB RAM to 1GB CPU/3GB RAM, directly lowering cloud infrastructure expenses.
- Rewrote a performance-critical Data-Transforming pipeline in Python using Polars, replacing pandas-based legacy logic. Achieved 30x faster processing (15 min → 30 sec) and reduced infra costs by 63x by significantly lowering CPU and memory usage.
- Migrated a KPI computation service from pandas (Python) to Polars (TypeScript), reducing annual data processing time from 85 hours to just 2.03 hours (42x faster) and slashing infrastructure costs from $21 to just $0.059.
- Re-engineered an end-to-end Data Dump service to convert time-series CSV data into AWS Time Stream format. Modernized the legacy Python-Polars implementation by introducing new logic and removing unnecessary API calls, resulting in a faster and more efficient pipeline.

COVACSIS TECHNOLOGIES PVT. LTD.   Mumbai, India
Software Intern   June 2023 – July 2023
- Developed and optimized high-performance of Programmable logic controllers by using C++ applications, Object-oriented programming principles, resulting in a 20% improvement in overall execution time
- Collaborated with a team of software engineers to design and implement a new C++ module, reducing memory consumption by 40% and improving stability of Programmable logic controllers (PLCs)
- Resolved critical bugs by conducting in depth code analysis and implementing efficient solutions, resulting in a 60% decrease in application crashes

TECHNICAL SKILLS

Programming languages: HTML/CSS, Javascript, Typescript, C++, python
Framework and Libraries: Node.js, React.js, Polars, Jest, Mocha
Databases: MongoDB, MySQL, PostgreSQL, TimeScaleDB, Redis
Tools and Platforms: Git, GitHub Actions, Docker, AWS
Development Practices: RESTful APIs, Microservices, Agile, CI/CD

OTHER

Competitive Programming
- A 3-Star coder on CodeChef. With a maximum rating of 1600+ (Division-2)
- Got an AIR-197 in a coding contest of 20,000+ participants; achieved a max rating jump of +87
- Solved 600+ Coding problems on websites such as Leetcode, CodeChef, Codeforces