Siddharth Singh

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Work Experience

- **Gateway** — Remote
  Software Engineer — *Feb 2023 - April 2025*

  - Reduced **AWS** infrastructure costs by **$500+** monthly through serverless architecture implementation and resource optimization.
  - Optimized CSV parser to process **100k** values in under **10 seconds** using streaming techniques.
  - Redesigned TypeScript SDK reducing installation size by **82%** (**300MB** to **54MB**); extended to Go and Rust platforms with Swagger generation.
  - Developed RESTful APIs using **Golang** with **Swagger** documentation, improving system scalability and performance.
  - Created proof-of-concept applications and implemented smart contracts according to business requirements.

- **Project 28** — Remote
  Full Stack Web Developer (Intern) — *Aug 2022 - Dec 2022*

  - Built backend API boosting performance by **20%** through dedicated file server and reducing build time by **30%**.
  - Transformed monolithic backend into microservices architecture for improved efficiency.
  - Developed Chrome extension enabling easy image saving to the application's asset library.
  - Optimized database performance through query refinement and proper indexing.

Projects

- **GraphQL SDK Generator** — *2024*

  - Developed tool to automatically generate TypeScript code from GraphQL schemas, eliminating manual maintenance.
  - Streamlined development by auto-updating types when schemas change, reducing errors and improving efficiency.

- **Coding Machine - Online Code Editor** — *2022*

  - Built secure code execution platform using Docker containers with resource limits for CPU, memory, and file system.
  - Implemented microservice architecture with **REST API**, **AWS SQS**, and worker nodes for code execution.
  - Created safeguards against malicious code execution while maintaining responsive performance.

Education

- **Savitribai Phule Pune University** - Masters in Computer Science — Oct 2022 - July 2024
  Grade: 9.33 CGPA

Programming Skills

- **Languages:** Go, JavaScript/TypeScript, Rust, Java
- **Frontend:** React, Next.js
- **Backend:** Express.js, Gin, NestJS, GraphQL
- **Databases:** PostgreSQL, MongoDB, Redis
- **Cloud & DevOps:** AWS(S3, Lambda, ECR, EC2, SQS, SNS), Docker, CI/CD, GitHub Actions