Gourav Singh

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EDUCATION

- **Noida Institute of Engineering and Technology** — Greater Noida, UP
  B.Tech in Computer Science and Engineering; CGPA: 8 — *2019 – 2023*

EXPERIENCE

- **DevOps / SRE** — Norwood, New Jersey - Remote
  RecruitCRM
  - **IPv4 to IPv6**: Worked on migrating all Tier-1 microservices from IPv4 to IPv6.
    * Saving on public AwS IPv4 costs (*$1.8k/mo*) due to the global shortage.
    * Extending address space from 32 to 128 bits.
    * Built-in network layer security (IPsec).
    * Implemented dual-stack at the edge, preparing us for future IPv6 requirements.
  - **AwS Region Switch**:
    * Migration (Infra and Codebase) from Singapore to Mumbai on Test and Production (Servers, Database, MSK, Elasticache) as a part of cost optimisation activity in Q1'24.
  - **x86 to Graviton**:
    * Evaluated Graviton for data-intensive applications
    * Migrate inference workload from x86 to AWS Graviton.
  - **Cloud Native**: Worked on migrating Public API service workloads to Kubernetes along with Prometheus and Grafana setup from scratch under observability and monitoring.

- **Software Developer** — March 2021 - May 2022
  Xtreme Technologies - Indian Navy — *Remote*
  - **Hurricane/Storm Tracker**: Visualized tropical live wind (D3.js - Node.js), wave and develop Atlantic Marine Tropical Storm Risk Prediction Software.
  - **Compression Algorithms**: High speed Gzip port data compression with Pako.js, with more than 94 Percentage conversion rate.

- **Backend Engineer** — Dec 2021 - Feb 2022
  Pepcoding Education Private Limited — *Delhi*
  - **Founding Engg**:
    * Helped Pepcoding to develop "Nados.io" a platform for techies where they can interact, learn and compete with each other.
    * Currently, Nados software is serving 5Lakhs+ Users.

ACHIEVEMENTS

- **Google Hash Code**: Rank 529 (2022)
- **Google Hash Code**: Global Rank 1832 (2022)
- **Competitive Programming**: 4 star on Codechef, username: gouravsingh258 Highest (1826) and 500+ problems solved on leetcode (gouravsingh2580)
- **Coding Club President**: (2021-2022)

PROGRAMMING SKILLS

- **Languages**: C/C++, Python, JavaScript, NodeJs, Bash, Php, Laravel, YAML, HCL, ReactJs, D3.js, MySQL

- **Technologies**: AWS, Docker, Kubernetes, Kafka, Redis, Linux, Prometheus, Grafana, Jenkins, Elasticsearch, Git, Terraform, Ansible, Azure, Packer, ECS, EKS, MSK, Elasticache, Cloudfront, Cloudwatch, Route53, RDS (Aurora), MongoDB