# Divyendra Patil

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Engineer, Medic, Researcher, Systems Architect

## Experience

- **Principal SRE**  Dotdash Meredith, NYC  Apr `21 - Present
  - Lead CDN & Security Architect for **People, Investopedia, Allrecipes**, BHG, Verywell, Spruce, Byrdie, etc. managing infrastructure, and handling **200M+** users per month.
  - Driving the adaptation of **HTTP/3, HTTPS (SVCB Record types) & 0-RTT** towards major brands.
  - Integrated systems to thwart malicious traffic & DDoS attacks. [≈**1+ Billion requests per year**.]
  - Undertook the containerization of SOLR to ensure robust handling of production-level traffic.
  - Architected ES (8.X.X) clusters (along with APM) in EKS with fault tolerance.
  - Revamped Kafka with envoy to ensure seamless connectivity during node IP changes.
  - Reduced AWS costs by migrating workloads using SPOT & Graviton instances to save ~ **$1.2+ million p.a.**

- **Emergency Medical Technician - NYS [Volunteering]**  Aug `22 - Present
  - Certified EMT providing emergency medical assistance and first aid to participants at races and events.
  - Conducted patient assessments and monitored vital signs, administering appropriate care.
  - Worked collaboratively in a team of medical professionals and volunteers to ensure patient safety.

- **SRE II**  CB Insights, NYC  Sep `19 - Mar `21
  - Achieved **90%** application-level observability on all services with dashboards, metrics, tracing, logging.
  - Attained **100%** service-level visibility on all micro-services _via_ metricbeat + elastic-search.
  - Saved **$15,000 p.a.** by shutting down unneeded services and infrastructure.
  - Saved **1520 hours p.a.** of work-time for engineers by building an internal serverless tool.
  - Collaborated with frontend team to reduce build time for central service from _60 minutes to 10 minutes._
  - Spearheaded enhanced visibility for RDS, Aurora and envoy service mesh routing.
  - Implemented distributed tracing across all micro-services to swiftly debug failures.
  - Standardized procedures for the engineering department to attain visibility on their applications.
  - Formalized the incident management and response system with opsgenie.

- **DevOps Engineer, Intern**  RubensteinTech, NYC  Mar - Aug `19
  - Deployed a new ELK clusters for increasing reliability & search/query response time handling logs from 400 servers from all 3 environments.
  - Devised a centralized cron logging mechanism on servers for better visibility on their executions.
  - Automated generation of nagios alerts for all projects using ansible.

- **Infrastructure, Intern**  MeetUp, New York City  Jun - Aug `18
  - Learned about improving, monitoring & testing infrastructure.
  - Designed a project to automate alerting of failed pipelines to teams (lambda + pagerduty)

## Education

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|---|---|---|---|
| A.A.S. | Paramedic | City University of New York | Aug '23 |
| M.S. | CyberSecurity | Stevens Institute of Technology | Aug '17 - Dec '18 |
| B.S. | Computer Engineering | University of Mumbai | Aug '12 - May '16 |

## Achievements

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|---|---|
| - MIT – Hack Medicine | Nov `18 |
| - Stanford University – Health++ | Nov `18 |
| - ICIMS Hackathon – Bell Labs (W) | Oct `18 |
| - HealthTech Hackathon (W) | Oct `18 |
| - John Hopkins University Hackathon | Sep `18 |
| - Social Good Hackathon (W) | Aug `18 |
| - Princeton University Hackathon (W) | Apr `18 |
| - NYU Global Hackathon (W) | Mar `18 |
| - Stony Brook IOT Hackathon (W) | Feb `18 |
| - CTF Hacking at Stony Brook (W) | Feb `18 |
| - Altice USA & Infosys Innovation Hackathon (W) | Nov `17 |
| - Hack NJIT | Nov `17 |
| - Boston University Hackathon | Oct `17 |

## Open Source

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|---|---|
| - Codenza | - codenza.app (470k+ Downloads) |
| - Blogposts | - divyendra.com/blogposts |
| - Grad Hackathon Projects | - devpost.com/divyendrapatil |
| - Github | - github.com/divyendrapatil |

## Favorite Books

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|---|---|
| - Crime & Punishment | Fyodor Dostoevsky |
| - Hell is the Absence of God | Ted Chiang |
| - Bullet in the Brain | Tobias Wolff |
| - Red Mars \| Blue Mars \| Green Mars | Kim Stanley Robinson |
| - The Case for Mars | Robert Zubrin |
| - Seveneves | Neal Stephenson |

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Additional Skills

- Diverse practical skill set including basic plumbing, mechanical repairs, and woodcutting.

- Investment and financial management expertise, with a focus on high-risk options trading.