

Engineer, Systems Architect, Researcher

- **Principal SRE** Dotdash Meredith, FIDI - NYC Apr 2021 - Present
 - Operating and managing complex infrastructure, handling 180M users per month.
 - Reducing AWS costs by migrating workloads to use SPOT & Graviton instances saving ~ \$1.2 million p.a.
 - Architecting a serverless tool:
 - To check exact IP origins during DDOS attacks
 - Quickly clear caches for all websites
 - A single pane of glass for load balancers, and IP's for websites.
 - Rapid CDN Switching & a break-glass tool to be used in outages.
 - Architecting ElasticSearch \geq 8.2.0 clusters over graviton on EKS supporting maintainance, upgrades.
 - Setting up APM over ES for tracing & metrics (decommissioning outsourcing).
 - Security testing for Next Gen WAF's & performance monitoring for CDN.
 - Deployed service mesh to obfuscate complex networking for containerized applications.
 - Dockerizing & migrating services running barebones on KOPS / ECS / EC2 to EKS.
 - Fastly & Cloudfront (Multi-CDN) + AWS & GCP (Multi-Cloud).
- **Site Reliability Engineer II** CB Insights, New York City Sept 2019 - Mar 2021
 - 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 / per year by shutting down unneeded services and infrastructure.
 - Saved 1520 hours / per year 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.
 - Solved potential problems to avoid becoming active problems.
 - Terraform, Nomad, Consul, Gitlab CI, Docker, Golang, Datadog, Elastic-search.
- **DevOps Engineer, Intern** Rubenstein Tech, New York City Mar - Aug 2019
 - 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.
 - Ansible, ELK Stack, Nagios, Bash/Shell.
- **Site Reliability Engineer, Intern** MeetUp, New York City Jun - Aug 2018
 - Learned about improving, monitoring & testing infrastructure.
 - Designed a project to automate alerting of failed pipelines to teams (lambda + pagerduty)

Achievements

- MIT – Hack Medicine Nov 2018
- Stanford University – Health++ Nov 2018
- ICIMS Hackathon – Bell Labs (W) Oct 2018
- HealthTech Hackathon 2018 (W) Oct 2018
- John Hopkins University Hackathon Sept 2018
- Social Good Hackathon (W) Aug 2018
- Princeton University Hackathon (Best Hack for Social Good) (W) April 2018
- New York University Global Hackathon (Assistive Technology) (W) Mar 2018
- Stony Brook IOT Hackathon (W) Feb 2018
- CTF Hacking at Stony Brook (W) Feb 2018
- Altice USA and Infosys Innovation Hackathon (W) Nov 2017
- Hack NJIT Nov 2017
- Boston University Hackathon (Boston Hacks) Oct 2017
- Digital Healthcare Hackathon (Stevens) Oct 2017

Education

- Stevens Institute of Technology - Master's CyberSecurity Aug 17 - Dec 18
- University of Mumbai - Bachelor's Computer Engineering Aug 12 - May 16

Projects and OS

- Creator: Codenza codenza.app - Dec 2016 - Present (4,70,000+ Downloads)
- Portfolio/Blog: divyendra.com (For additional info and projects)
- SRE Blogposts: medium.com/cbi-engineering
- Hackathon projects: devpost.com/DivyendraPatil
- Open-source: github.com/divyendrapatil

Skillset / Miscellaneous

- Options Trading / Technical & Fundamental Analysis
- EMT/Paramedic Certified (WIP)
- Plumbing, Mechanic (Repairing pipes / appliances / computers / cold storage)
- Running PB (Mile - 6:35, 5k - 21:14, 10k - 42:47, Half - 1:47:20)
- Swimming (WIP)
- Scuba Diving Certified (WIP)
- Current VO₂ Max 57.1

Favorite Books:

- Crime and Punishment, Notes from Underground - Fyodor Dostoevsky
- Seveneves - Neal Stephenson
- Fundamentals of Astrodynamics - Bate, Mueller, and White
- Ignition - John D. Clark
- Rocket Propulsion Elements - Sutton and Biblarz
- Elements of Propulsion - Mattingly, and Boyer
- Design of Liquid-Propellant Rocket Engines - Huzel and Huang
- Guide to Space Launch Systems - Iskovitz, Hopkins and Hopkins Jr.

Passion

- Human space exploration.
- Self-prototyping efficient rocket design and propellant systems using Fusion - 360.
- Actively training for ASCAN @ NASA - 2032/34.
- Documenting the entire journey @ astronautjourney.com