Ankur Singh

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y ankurs13 **in** /in/ankursingh13 **○** rush-skills

Summary

A polyglot entrepreneurial developer with a hacker state of mind. Managing large scale distributed systems, building modern apps and automating manual processes. Always hustling to architect and build amazing products.

Education

IIIT Delhi Aug. 2013 to Jul. 2017 B. Tech. CSE

Gold Medalist - Best BTech Project (Entrepreneurship) Admin of Byld - SDE Club SysAdmin TA for Data Center and R&D infrastructure

TA - Intro To Programming '14 & '15

Skills

Programming Languages: Python, Ruby, Java, Bash, JavaScript, Golang **Development:** Ruby on Rails, Flask, Redis, PostgreSQL, MongoDB, Spring, ElasticSearch, Graphite, Puppet Tools and Technologies: Linux, Docker, AWS, Git, Kubernetes, GCP, StackStorm, Terraform, Rundeck, GitOps, HTCondor Languages: English, Hindi General Skills: Public Speaking, Communication, Leadership, Networking, Analytics

Volunteering

StackStorm Nov. 2021 to Present Remote Open-source maintainer Contributor and Maintainer for the StackStorm open-source project, also serving on the Technical Steering Committee.

Helping Hands May 2016 to Jun. @IIITD Volunteer/Teacher Delhi, India A student initiative to help children of small schools get access to better education and learning. As a part of the initiative, we went to various public schools for low-income kids and gave extra classes. I also volunteered for a summer camp where underprivileged students from government schools were taught different subjects and life skills.

Employment

European Organization for Nuclear Research (CERN) Sep. 2020 to Feb. 2023 Computing Fellow Geneva, Switzerland

Worked in the Batch team, responsible for the distributed grid and batch systems of CERN, spanning over 250k cores.

- Primary Project: **DevOps Automation** with **StackStorm** to enable **auto**remediation workflows for our HTCondor clusters, laying the foundation for a selfhealing architecture. Automation for handling broken nodes (no-contact alarms) in the system (earlier dealt with 2nd line support) is now handled first by the remediation workflows and has saved 1000s of man-hours. This work has been presented at the HEPiX conference in Umeå, Sweden.
- Also researched load-shaping jobs on compute clusters to limit storage I/O of rouge jobs and keep cluster health in check. Automation to detect users with bad I/O patterns and auto-throttling them.
- Attended Thematic CERN School of Computing (tCSC) in the Security of research computing infrastructures in Split, Croatia.
- Other roles include being a **CERN WhiteHat**, a **WIT mentor**, and an **official guide**

Tower Research Capital

Software Engineer, HPC

Jun. 2018 to Jul. 2019

Gurgaon, India

India Lead for the High-Performance Computing (HPC) team

- Administrating the hybrid HTCondor clusters spanning **50k cores** across on-prem and cloud, petabyte-scale storage systems (GPFS, Isilon, Ceph), and graphite ingesting 60M metrics/min for in-depth system insights
- Managing the infrastructure and clients for large-scale distributed data simulations and stock market research
- Speeding up the research cycle by finding inefficiencies using 50M events/day in ELK for workload analysis

Myntra (Flipkart)

Software Engineer, BI/Analytics

Jul. 2017 to Jun. 2018 Bengaluru, India

Core developer of products for analytics and business insights at India's largest fashion e-commerce

- Live metrics and key dashboards that are used by CXOs were made in our dashboarding tool that allowed analysts to access, visualize and report across all internal data, which drove key decisions in a data-driven company
- Rewriting the core engine to reduce the core process from days to minutes for a targeted marketing tool that **segmented** the **100M** customers on **200 parameters**

Entrepreneurial Experience

Pixotronics

Nov. 2023 to Present Bangalore, India

Consultant

Pixotronics is a startup working on real-time photo-realistic 3D graphic rendering products, powered by their open-source WebGI framework. As a part of the small team, I have been working on the ilewel suite of products, which enable jewelry store owners to add ultra-high quality rendering capabilities to their websites.

Jul. 2019 to Jan. 2020 Mouve

Developer

CTO

Noida, India

Animated story maker for Instagram powered by a Unity based rendering engine with over 100k play store downloads

EnergyGrade

Nov. 2016 to Jun. 2017

Delhi. India

Making rooftop solar power accessible using technology, experimenting with energy forecasting and panel health monitoring tools, and installing over 1MW of solar panels in India