TATHAGATA PAUL

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EDUCATION

MS in Computer Science, Stony Brook University, New York   August 2023 - December 2024

B.Tech Computer Science, Indian Institute of Information Technology, Gwalior   August 2019 - July 2023
Relevant Coursework: Analysis and Design of Algorithms, Database Systems, Software Management Principles, Cloud Computing, Computer Networks.

SKILLS

Languages	Golang, Javascript, Typescript, C, C++
Frameworks	React.js, Redux, Next.js, GraphQL, Node.js, Express.js, Django
Databases	SQL, MYSQL, PostgreSQL, MongoDB
Other	Docker, Podman, Kubernetes, Openshift, Terraform, Ansible, AWS, Git, REST APIs

EXPERIENCE

Software Engineer Intern   Jan 2023 - June 2023
Red Hat   *Bangalore, India*

- Guided the DevBU team, collaborating with a team of 4 to revolutionize quality of life updates and enhance SEO for the Red Hat Developer website.
- Testing the viability and integration of products in the Ansible space including the likes of Ansible Automation Platform and RHEL, improving developer productivity by 40%.
- Crafted and published insightful technical blogs on Ansible products, increasing developer engagement by 20%.

Platform Engineer Intern   June 2022 - September 2022
Lummo   *Bangalore, India*

- Coordinated with a team of 8 members to implement quality of life upgrades and bug fixes around Lummo infrastructure hosted on Google Cloud Platform.
- Engineered a robust extension to dynamically populate Jinja-templated YAML files by retrieving Terraform state outputs, reducing boilerplate code by 60%.
- Incorporated a streamlined workflow for orchestrating over 100 resources on a GKE cluster using KRM functions.

Linux Foundation Mentee   March 2022 - May 2022
Kyverno   *Remote, India*

- Implemented Opentelemetry support in Kyverno, expanding the observability capabilities by integrating upto 3 essential instruments: metrics, traces, and logs.
- Conducted extensive performance testing on Kyverno with 2000+ pods across multiple namespaces.
- Fixed bugs, reduced duplicate code and improved test coverage upto 60% in the Kyverno policy package.

PROJECTS

[Collaborative Text Editor](#) Architected a real-time collaborative text editor using the MERN stack with React, Slate, and Websockets.

[DistrKV](#) Developed a distributed Key-Value store using Golang and GoMux, using sharding techniques.

ADDITIONAL

- Made significant contributions to cloud-native projects including Kyverno, Cert-Manager, and Meshery.
- Achieved Global Rank 1491 in Google Hashcode 2021. Runner Up in Flipr Hackathon, India 2022.
- Active member of Rotaract Club of Youth, Gwalior. Founding Member of E-Cell, IIIT Gwalior.