

# Tasdik Rahman

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## WORK EXPERIENCE

- New Relic, Berlin:** *Senior Software Engineer, Cloud Platform* October, 2022 - Present
- Led the design & implementation of a core Golang-based scheduling engine, directing a distributed team of 4 engineers across 3 time zones. Engineered a declarative abstraction via Kubernetes admission/mutating webhooks and controllers, acting as a critical platform component to process thousands of daily multi-cloud deployments while simplifying complex scheduling requirements for 1,000+ platform users. Presented this architecture at [ContainerDays, Hamburg, 2024](#).
  - Developed a custom golang based reconciliation engine (K8s controller) to orchestrate k8s cluster bootstrapping across 280+ clusters in a cellular architecture. Transitioned execution from fragile Jenkins pipelines to an event-driven architecture, utilizing Custom Resource Definitions (CRDs) as database to persistently store state and inventory.
  - Developed a state-aware Kubernetes controller (golang) to automate multi-cloud workload migrations from Cluster API pools to Karpenter. Implemented intelligent stabilization monitoring, node tracking, and automated circuit-breaking, driving compute optimization and reducing cloud spend by tens of thousands of dollars.
  - Contributing upstream, by adding new features and fixes to kubernetes-sig projects of [Cluster-API-AWS](#), [Cluster-API-GCP](#) and being part of [release team for Cluster API 1.9](#). Maintaining the internal forks of kubernetes-sig projects, [Cluster-API](#), [Cluster-API-AWS](#), [Cluster-API-GCP](#).
- DeliveryHero, Berlin:** *Senior Systems Engineer, Logistics* July, 2021 - September, 2022
- Designing & executing from scratch, k8s upgrade automation for all 50+ k8s clusters managed by our team serving traffic for global services, achieving reduction of 30% upgrade time, making upgrades reliable and repeatable, leading a team of 3 newer team members during this project and [open sourcing it](#).
- Gojek, Bangalore:** *Software Engineer, Engineering Platform team* December, 2018 - July, 2021
- Engineered a high-throughput deployment automation platform processing 300+ daily 1-click canary rollouts for 18+ product groups across 13,000+ VMs and 100+ K8s clusters. Architected the system utilizing a Ruby on Rails central orchestrator and service registry, which routed deployments to specialized Golang (Kubernetes) and Python (VM) execution backend systems, utilizing PostgreSQL for centralized state management.
  - Implemented SSL certificate automation for all 180+ internal developer VPNs inside the org, by building & open sourcing [kingsly](#), taking care of the entire certificate life-cycle, right from creation to rotation, reducing human effort spent on renewals to zero. [Release blog post](#).
  - Designed and built a dedicated VM provisioning API microservice in Ruby on Rails, serving as a core backend component for the central service registry. Streamlined self-service infrastructure rollouts via pre-baked templates while leveraging PostgreSQL for strict microservice state tracking and centralized inventory management.
- Razorpay (YC W15), Bangalore:** *Infrastructure Engineer I* July, 2017 - December, 2018
- As Engineer #4 on the early cloud platform team, operated as an expert generalist to drive platform scale from 30k+ to 85k+ merchants. Paired deep infrastructure expertise with broad operational versatility jumping from daily reliability ops, security patching, and legacy VM maintenance, to leading self-hosted Kubernetes R&D and presenting our [kubernetes-sig/bootkube](#) powered migration architecture from VM's to k8s at [DevOpsDays Bangalore, 2018](#).

OPEN SOURCE	<b>Contributor:</b> oVirt Org under RedHat	Summer 2017
	<ul style="list-style-type: none"> <li>Wrote additional <a href="#">Ansible playbooks</a> from scratch along with their test cases for enabling remote machine engine renames with zero downtime &amp; for interaction of the main control engine with remote resources (Database, Data Warehouse) &amp; other oVirt-utilities which would help in <i>Easier testing, Automated Re-deployment &amp; Reducing manual errors while deploying.</i></li> </ul>	
EDUCATION	<b>B.Tech in Information Technology, SRM University, India</b>	2013 - 2017
	<ul style="list-style-type: none"> <li>First Class with Distinction, CGPA of <b>9.133/10</b></li> </ul>	
TECHNICAL SKILLS	<p><b>Languages</b> - Golang, Python, Ruby, Shell Scripting</p> <p><b>Tools/Frameworks</b> - Kubebuilder, controller-runtime, Cluster API, Chef, Ansible, Packer, Terraform, Docker, Ruby on Rails, Flask</p> <p><b>Databases</b> - PostgreSQL, MySQL, ETCD, consul</p> <p><b>Logging/Monitoring</b> - prometheus, grafana, fluentd, telegraf</p> <p><b>OS</b> - Unix/Linux</p> <p><b>Container Orchestration</b> - Kubernetes</p> <p><b>Service Mesh</b> - Istio</p> <p><b>CI/CD</b> - gitlab, drone, jenkins</p> <p><b>Cloud Providers</b> - AWS, GCP, Azure</p>	
NOTEWORTHY PROJECTS	All projects are available on Github : <a href="https://github.com/tasdikrahman">github.com/tasdikrahman</a>	
	<ul style="list-style-type: none"> <li><b>SRM Search Engine:</b> SysAdmin &amp; Backend developer A General Purpose Search Engine, funded by "<a href="#">National Internet Exchange of India</a>". Oversaw migration to a <i>Flask</i> app from CGI service. Wrote RESTful API's for various modules for our search service and scripts to automate the maintenance of our server. Crawlers to extract &amp; index millions of pages. Helped design &amp; set up a 15 node, master-slave Hadoop cluster.</li> <li><b>Plino</b> <a href="https://plino.herokuapp.com/">plino.herokuapp.com/</a> Conceived plino, a high accuracy spam filtering system built on top of a custom <i>Naive Bayes Classifier</i>, trained against 33,000 emails. Designed &amp; developed RESTful APIs using Flask. Implemented Caching for server load reduction. <i>Achieved over 3000+ users</i> in our 1<sup>st</sup> version.</li> </ul>	
TECHNICAL TALKS GIVEN	<ul style="list-style-type: none"> <li><b>"Resilient Multi-Cloud Strategies: Harnessing Kubernetes, Cluster API, and Cell-Based Architecture"</b>, KubeCon EU 2025, London, April 2025</li> <li><b>"How to make pod assignment to thousands of nodes every day easier"</b>, ContainerDays, Hamburg, September 2024</li> <li><b>"Keeping up with Kubernetes cluster upgrades"</b>, Kubernetes Meetup, Bangalore, September 2022</li> <li><b>"TDD: An Experience report"</b>, Bangalore Ruby meetup, India, December 2020</li> <li><b>"Achieving repeatable, extensible and self serve infrastructure"</b>, Rootconf Hyderabad, India, November 2019</li> <li><b>"Kingsly - The Cert Manager"</b>, DevConf India, July 2019</li> <li><b>"Enabling Canary deployments in k8s"</b>, DevopsDays India, December 2019 (Lightening talk)</li> <li><b>"Kuberception: Self hosting kubernetes"</b>, DevOpsDays India, December 2018</li> <li><b>"Diving deep on how imports work in Python"</b>, PyCon Taiwan, June 2017</li> <li><b>"Introduction to Ansible"</b>, Bangalore Python User group Meetup, April 2017</li> <li><b>"Demystifying how imports work in Python"</b>, ChennaiPy Meetup, October 2016</li> </ul>	