

RAJAT SHUKLA

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Objective

- I am looking for a switch to work in backend development as I have more development experience than core 'DevOps' experience.
- I have worked extensively on infra automation (treating Infrastructure as Code).
- Experienced with AWS technologies, ELK stack, microservices, etc.

Summary

- Senior Software Engineer with almost 5 years of experience.
- Working on writing backend software and automating infra.
- Knowledge of AWS technologies, ELK, Nagios, Graphite, etc.
- Knowledge of backend software development.
- Have previously worked on Android, iOS development.

Experience

- **NewtonHQ.com - CloudMagic** — Bengaluru, KA
Software Engineer: Aug, 2014–present
 - Working in the backend team automating infra setup and deployment using our own provisioning and deployment software.
 - Setup and maintenance of federated graphite and clustered elasticsearch (ELK) and PHP wrapper over their APIs.
 - Automated recovery of both stateless/stateful EC2 instances whenever they are marked system/instance impaired by AWS or have a scheduled event pending.
 - Wrote a wrapper over Route53 API to enable us to use DNS like a load balancer reducing costs in test environments.
 - Wrote monitoring using graphite APIs and Cloudwatch APIs that monitors performance of our EC2 instances, RDS, redis, etc.
 - Automatic autoscaling of EC2 instances based on parameters like Gearman Job count, SQS incoming messages, ELB request count, CPU Usage, etc.
 - Automated creation/termination, stop/start/refresh of a full Newton test environment, reducing the time and effort spent otherwise.
 - Automated syncing logs from instances to a single instance (using rsync) and then archiving them to S3 for long term storage.
 - Have worked on Nagios for monitoring, Twilio and Pagerduty for call alerts.
 - Technologies - AWS PHP SDK, Python, PHP, Capistrano, ElasticSearch, Graphite, etc.
- **Xora, a ClickSoftware company** — Bengaluru, KA
Software Engineer: Sept, 2013–Aug, 2014

- Worked on Xora StreetSmart, on various mobile platforms, such as Android, Blackberry, MIDP and Brew.
 - Worked on implementing Trips feature in the app, wherein it had to collect breadcrumb trail of a user and calculate distance and fuel usage.
 - Helped QA team implement testing using automation testing framework Calabash.
 - Technologies - Android SDK, Blackberry SDK, Java ME, Brew SDK.
- **Repositories on github.com** — rajats105
<https://github.com/rajats105>
 - arana: Web scaper built on top of a headless web browser PhantomJS, and it can scrape Single Page Applications easily.
 - prezto: ZSH config framework forked from sorin-ionscu/prezto. I added customizations to support conda, rvm, etc and added my theme - electro.
 - prelude: Emacs configuration framework forked from bbatsov/prelude, with my own customizations on top of it.
 - projecteuler: Collection of programs to solve problems on <https://projecteuler.net/>.
 - dotfiles: Collection dotfiles, e.g conky config, .zshrc, .Xresources, etc.

Skills

- **Languages:**
 - Currently : PHP, Python, JS, SQL and Shell.
 - Past : C and Java.
- **Software:**
 - Tools : Emacs, Chef, Jenkins, Ansible, etc.
 - Software : Graphite, Grafana, ELK, Nagios, etc.
 - Others : AWS SDK, PhantomJS, Kohana, etc.