RAJAT SHUKLA

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Objective

- 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-ionescu/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.