Adeel Hasan Akbari

su@pydev.me

aws ✔ CERTIFIED

📦 Solutions Architect - Associate

Summary

- Staff Software Development Engineer with a Masters Degree in Computer Science.
- Passionate about Infrastructure Automation using tools such as Jenkins, SaltStack, Ansible, Splunk, PagerDuty etc. to automate packaging, deployment and monitoring.
- Adept at building highly scalable infrastructure and data ingestion pipelines on AWS utilizing EC2, Elasticsearch, ElastiCache, Lambda, S3 and Route53.
- Developer at heart, started off with PHP (Yii, CodeIgniter, Laravel), currently working on Python (Django, Flask, Eve), JavaScript (AngularJS, VueJS) and a very tiny bit of Java (which I hate).
- Love building and consuming APIs, preferably using Tastypie (Django), not much into CSS/HTML although {Bootstrap brings out the designer in me /s}.

Professional Experience

December, 2013 — Present	Symantec[1] Staff Software Dev. Engineer	Karachi, Pakistan

Experience Summary

- Started off as a Frontend Engineer working on the hugely popular (at that time) MVVM framework AngularJS. Developed reusable components that are still part of the product (more than ~3.5 years since creation).
- Built SOC2 compliant solution to provide engineers access to customer data in an auditable manner for debugging.
- Built the initial version of Content Inspection Framework to facilitate inspection and identification of data exposure risks in cloud.
- Prototyped and designed debugging framework leveraging Splunk for easier identification of problems during live support sessions with customers.
- Fire-fighting infrastructure issues on a regular basis via monitoring, alerting and custom tools.
- Automated AWS EC2 cluster management and scheduling for cost reduction.
- Developed custom monitoring tools to leverage multi-service external monitoring of CloudSOC Gateway, aggregate results and perform decisions based on results thus acquired.
- Built standalone custom solution (using Cachet/Laravel/PHP) for conveying CloudSOC health and security incidents to customers.

DevOps Experience

- Well-versed with the Linux (Ubuntu) environment, having managed clusters of >500 servers in AWS EC2 as part of my regular duties. Automated provisioning using Ansible, SaltStack and cloud-init.
- Worked with HAProxy as part of the CloudSOC Web Gateway deployment. Experienced with automating configuration, addition and removal of backends. Also well-versed with AWS Autoscaling Groups and Elastic Load Balancer configuration for deploying high availability web applications.
- Hailing from a development background, I have on many occasions tailored solutions custom-built for the scenario at hand, hence streamlining and automating the build deployment process. This allows low-friction deployment for developers which in turn provides a higher quality product since it enables developers to perform integration tests more frequently. These solutions frequently span multiple services such as Slack, Jenkins, PagerDuty, SaltStack and AWS EC2.
- Developed a spillover framework using AWS EC2 APIs and Spot Management APIs to allow scaling using Spot Fleets when ASG reserved capacity is fully utilized.
- Part of the team driving migration of CloudSOC components to Docker-based containers on AWS Elastic Container Service. The endeavor is in R&D phase with a few components running in hybrid (container +

---

[1] Started off at Elastica working on CloudSOC. Elastica was acquired by Blue Coat Systems in November 2015. Blue Coat Systems was acquired by Symantec in June, 2016.

instances) mode.
- Part of the on-call rotation, responsible for handling escalations and alerts from the application and resolving them during Karachi timezone. Also requires debugging application performance issues and working with developers to get fixes in.

February, 2012 — December, 2013	**Folio3 Pvt. Ltd.** Software Engineer	Karachi, Pakistan

- First job, started off as a Trainee Software Engineer for 6 months, graduated to Software Engineer on successful completion of training program.
- Executed complete migration from core PHP to Yii framework.
- Automated CRUD application generation using Gii code generator. Allows generation of editable grids using DataTables and jEditable (jQuery).
- Automated deployment of incremental builds on Linux (Ubuntu) server using Subversion.
- Worked on several client facing projects for an offshore client, was always commended on the quality and promptness of my work.

Education

Masters of Computer and Information Technology

NED University of Engineering and Technology — 2012 to 2014

Bachelors of Electrical Engineering

NED University of Engineering and Technology — 2008 to 2011

References

Available upon request, available from immediate managers on LinkedIn