Rithvik Mekala

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Experience

Software Development Engineer – Amazon, Hyderabad Jun 2018 to Aug 2019

Worked in a team part of Distributed Computing Services that provides a hosting platform for Amazon Services.

Monitoring Armory – Independently developed from scratch an internal web application that automates the set-up of infrastructure level monitoring and alarming for any service within Amazon. Users can now save days of manual effort by visiting the UI and one click setting up a monitoring stack for their services within minutes. Presented tool at Amazon Developer Conference DevCon, Bangalore 2019. Successfully on-boarded ~30 services. Guided an intern in designing and developing necessary backend infrastructure that would help iterate into version 2 of the tool. (**React**, **Java**)

Redesigned the On-Boarding functionality of our platform which is the entry point for users. Added retry logic for recoverable errors and notification mechanism for non-recoverable errors. Added flexibility for users to re-use existing service artifacts which previously caused ~20 tickets per week thereby improving user experience. (**Java, JSP, Spring MVC**)

Redesigned Host Type change functionality which is extensively used during peak events for service owners to upgrade/downgrade their host boxes. Integrated functionality with live host availability data. Designed the core algorithm responsible for mapping old service artifact metadata to new unique identifiers. This improved the robustness of the functionality and reduced operator load. (**Java, JSP, Spring MVC**)

Worked with a senior engineer in adding support of a TCP based load-balancer for our platform users. (**Java**)

Worked with a senior engineer to migrate APIs from a ruby based service to a Java based service. (**Java**)

Software Development Engineer Intern – Amazon, Hyderabad May 2017 to Jun 2017

Worked in a team part of Fast Data Technologies that provides an automatic data migration solution for services with in-frequently accessed data.

Added feature that periodically tracked health of Amazon EC2 reserved instances of the service, notifying team when they were about to expire. This led to monetary savings for the team. (**Java**)

Designed and implemented utility program that would analyze a services data access patterns and establish if it was suitable for on-boarding onto the platform and the monetary savings. (**Java**)

Education

IIT (BHU) Varanasi, July 2014 to May 2018

B.Tech in Computer Science and Engineering

Technical Skills

Software Engineering, Machine Learning.

Programming Technologies – Java (Spring MVC, Guava, JSP), Python (Django, Keras), Javascript (React), SQL, HTML/CSS.

Other Skills

Professional chess player with International FIDE rating 1543

Speed-Cuber with 3x3 Rubiks cube average of 15 seconds.