Ankit Singh
Senior Software Engineer ● LotusPay

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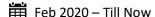https://theankitsingh.in/ ⌾

Bengaluru, India ⚲

Full-stack developer skilled with Ruby on Rails, React, Python, and AWS services. Certified AWS Solution Architect with expertise in designing secure, scalable solutions. Experience at delivering high-quality end-to-end solutions on time.

PROFESSIONAL EXPERIENCE

Senior Software Developer Engineer
LotusPay

📅 Feb 2020 – Till Now

Led the technical department as its only developer and establishing an agile framework. I engineered the cutting-edge tech stack to align it seamlessly with the organization's strategic objectives and achieving the result with improved overall efficiency

- Developed **serverless functions** to **automate** periodic job processes, **resulting in a 90% reduction** in **human intervention** and **freeing up core servers** for more **critical tasks** using **AWS Lambda**.
- Redesigned **A/B testing** to figure out which web page leads to max conversions and coded scripts to perform testing to get hold of critical errors at an earliest.

Image Processing Standalone EC2 Instance

- Collaborated with cross-functional teams to analyze user requirements, design technical specifications, and develop a **scalable image processing architecture** that resulted in a reduction of image processing time to **3 sec** and improved the **productivity** of the operations team by **150%**.
- Streamlined real-time monitoring and reporting tools to track system performance, giving in a **95% reduction** in **downtime incidents** and an average **resolution time** of **less** than **5 minutes**.

Payment's Importing System

- Developed a new technique for **importing** all the auto payment data from the bank to the native system leading to **decreasing** in server process time by **15x** (**MySQL**).

Platform Upgrade

- Crafted the **upgrade** process and deployment of the new environments on **AWS Elastic Beanstalk** with zero cost overruns and **zero production downtime** 2 times in a year.
- Analysed and Leveraged **AWS Route53** for **blue green** deployment to **reduce downtime** by 30% during peak hours.
- Identified **performance bottlenecks** problem through profiling tools and implemented **caching** strategies, reducing server load by 50%, **improving** scalability and **saving** $10k/yrs on hosting costs.
- Initiated customized error messages for each unused Rest API request, **reducing customer confusion** and **increasing** overall **satisfaction** by 25%.
- Decreasing the **page load time** from 7s to 1s by implementing **AJAX** call for heavy queries.

AWS Service and Scripts

- Designed Linux services to avoid fault deployment to production and handle the ongoing background jobs using **Redis** and **sidekiq** refining the operations by 35%.
- Implemented and expanded a secure **three-stage pipeline** mechanism utilizing **AWS Workspaces**, thereby ensuring that confidential code repositories were never directly accessed, **resulting** in a 60% **reduction** in the risk of data leakage.
- Introduced and revamped **VPN protocol** within organizations **VPC** by leveraging AWS VPN services.

SKILLS

- Ruby on Rails, Python, C++, JavaScript
- Flask, Shell Scripting
- MySQL, DynamoDB, PostgreSQL
- Redis, Sidekiq, Git, GitHub
- Amazon Web Services
- REST API's
- Dockers
- Data Structure and Algorithms

ACHIEVEMENTS / RECOGNITIONS

- Published manuscript on **Object Detection and Segmentation** in International Scientific Research.
- Won best **Server-Side** project in the country by Udacity**.**
- Cultivated **public speaking skills** over the course of a four-year by giving tech seminar, speaking at meetups, and college debates.

PROJECTS

- Neighborhood Map - **KnockoutJS** and **Google Map API**
  - This Application helps to find the best places to visit in city using Google Maps api and list gets updated twice a year.
- Blood Bank Web Project - **Python, Flask, Google OAuth**
  - This Application maintains records, does a quick analysis of the blood category, and sends blood to the needy in under 1 second.
- Google Assistant App - **Google DialogFlow**
  - Created three apps in google assistant using DialogFlow **chat bot for introduction, learning python and sports quiz**.
- Heat mapping over an Image - **Resnet50.**

EDUCATION

GRADUATION
B TECH, Computer Science (June 2016 – June 2020)
Cambridge Institute of Technology – Bengaluru