https://theankitsingh.in/



Bengaluru, India 👂

Ankit Singh Senior Software Engineer • LotusPay

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 EX*PERIENCE

Lead Engineer

LotusPay



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 using AWS Lambda to automate periodic job processes, which led to a 90% reduction in human intervention. This freed up core servers for more critical tasks.
- Redesigned A/B testing to figure out which web page leads to max conversions and understanding user preferences and behaviour, leading to a 30% increase in conversion rates.

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 boosted 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 maintaining an average resolution time of less than 5 minutes.

Payment's Importing System

• Created and coded a new technique to **import** all auto payment data from the bank to the native system, resulting in a **15x decrease** in server **processing time** (MySQL).

Platform Upgrade

- Executed the upgrade process and deployed the new environments on AWS Elastic Beanstalk twice a year, achieving **zero** cost **overruns** and zero production downtime.
- Analysed and utilitzed AWS Route53 for blue-green deployment, **reducing 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 expenses.
- Initiated customized error messages for each unused Rest API request, reduced customer confusion and increased overall satisfaction by 25%.
- Executed AJAX calls for heavy queries, decreasing the page load time from 7 sec to 1 sec.

AWS Service and Scripts

- Designed Linux services to prevent faulty deployments to production and manage 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 the organization's VPC by leveraging AWS VPN services.

SKILLS

- Ruby on Rails, Python, C++, JavaScript
- Flask, Shell Scripting
- MySQL, DynamoDB, PostgreSQL
- Redis, Sidekia, 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 fouryear 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's and list gets updated twice a year.
- Blood Bank Web Project Python, Flask, Google OAuth
 - This Application maintains records, does a guick 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