

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. Effective communicator, adept at delivering high-quality end-to-end solutions on time.

## PROFESSIONAL EXPERIENCE

Senior Software Developer Engineer

Ankit Singh

# LotusPay



As the only engineer of the technical department, I curated and implemented a comprehensive tech stack, ensuring its alignment with business goals and overseeing the overall functioning of the department.

Senior Software Engineer • LotusPay

#### **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%**.
- Implemented real-time monitoring and reporting tools to track system performance, resulting in a 90% 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.
- Implemented AWS Route53 for blue green deployment to avoid downtime during peak hours.
- Managed the requirements gathering processes to **support** the development of new and enhanced features and functions.
- Identified **performance bottlenecks** through profiling tools and implemented caching strategies, reducing server load by 50%, **improving** scalability and **saving** \$10k/yr 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.
- 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.

#### **AWS Linux Service Scripts**

- Designed Linux services to avoid fault deployment to production and robustly handle the ongoing background jobs using Redis and sidekiq with REST APIs
- 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.
- Ran A/B testing to figure out which web page leads to max conversions and also developed scripts to perform testing to get hold of critical errors at an earliest.
- Implemented and developed 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, developed 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.
- Blood Bank Web Project Python, Flask, Google OAuth
  - This Application will help you to enter details and maintain record and do quick analysis of the blood category and send blood the need person quickly.
- Google Assistant App Google DialogFlow
  - Developed 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 (2016-2020) Cambridge Institute of Technology - Bengaluru