Ankit Singh Senior Software Engineer • LotusPay

With a strong foundation in **full-stack development**, I am a certified **AWS Solution Architect** with a deep understanding of **cloud-based solutions**. With expertise in product design, computer vision and passion for open-source.

theankitsingh1999@gmail.com ⊠

https://theankitsingh.in/

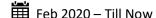
https://github.com/amankitsingh

Bengaluru, India

*PROFESSIONAL EX*PERIENCE

Senior Software Developer Engineer

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.

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%.
- Developed and implemented a robust **AWS EC2 instance**, resulting in a **99.9% uptime** for production, testing, and staging environments.
- 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

- Single-handedly managed the successful upgrade and deployment of the new production environments on AWS Elastic Beanstalk with zero cost overruns and zero production downtime 3 times in a year.
- Managed to do **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.
- Developed customized error messages for each unused REST API request, reducing customer confusion and increasing overall satisfaction by 25%.
- Decrease the **page load time** from 8s to 1s by implementing **AJAX** call for heavy queries.

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

NGINX

- Developed Nginx scripts to avoid unused REST APIs requests at the load balancer level and give an appropriate error to the request.
- Perform Server Audit/Maintenance/Update on Weekly basis into all regions hosted servers.
- Developed a secure three-stage pipeline mechanism using AWS workspaces to ensure that confidential code repositories were never directly accessed, reducing the risk of data leakage by 60%.
- Implemented and deployed **VPN access** to organizations **VPC** using **AWS VPN**.
- 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 smoke testing to get hold of critical errors at an earliest

SKILLS

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

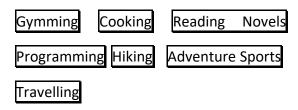
ACHIEVEMENTS / Recognition

- Certified AWS Solution Architect
- Named among 'Rockstar Developer' for excellent problem-solving skills and attention to details.
- Successfully published a manuscript on Object Detection and Segmentation.
- Best **Server-Side project** in the country by **Udacity.**
- Very active and profound in college:
 - Won prizes in various software dev, and hackathons.
 - Well-honed public speaking skills, developed over the course of a four-year by attending various tech seminar, 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
- Google Keep Replica NodeJS, HTML and CSS
- Pomodoro Clock ReactJS
- Drum Machine ReactJS
 - Developed a music system where you can make different type of beats for your upcoming music using 9 keys.

INTERESTS



EDUCATION

GRADUATION

BTECH, Computer Science (2016-2020) Cambridge Institute of Technology – Bengaluru

School: 12th - 2016

Airforce School ASTE - Bengaluru

School: 10th - 2014

Airforce School ASTE - Bengaluru

FAVORITE BOOKS

