

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 testing, product design, computer vision, and docker.

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Bengaluru, India

PROFESSIONAL EXPERIENCE

Senior Software Developer Engineer

LotusPay



Sep 2020 – Till Now

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, Python, C/C++, JavaScript, NodeJS, Shell Scripting
- Rails, Flask
- MySQL, DynamoDB, PostgreSQL
- Redis, Sidekiq, Git, Github
- Amazon Web Services

ACHIEVEMENTS / Recognition

- [Certified AWS Solution Architect](#)
- Named among '**Rockstar Developer**' for outstanding performance in LotusPay.
- 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.

INTERNSHIP

- LotusPay - Software Engineering - (Feb 2020 – Aug 2020)

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

Gymming Cooking Reading Novels

Programming Hiking Adventure Sports

Travelling

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

