

Abhishek Kasana

LEAD SOFTWARE ENGINEER

☎ (+91) 9888810403 | ✉ abhishekasana@gmail.com | 🏠 kasana.io | 💻 abhishekasana | 📁 abhishek-kasana-4a7836106

Technical Experience & Projects - 6 YOE

Cuemath

LEAD SOFTWARE ENGINEER

Apr 2023 - Present

- Led a team in creating a licensing framework for teachers, automating license management with 3rd-party assessment integration. Developed an asynchronous workflow for issuing licenses based on test results and a calendar preference system to manage teacher availability. Enhanced operational efficiency and increased trial acceptance rates through automated trial allotment.
- Spearheaded the design and implementation of an internal analytics streaming framework, ingesting millions of entries daily to enhance organizational data analysis capabilities. Utilized a **Go** router to efficiently stream data to data stores (**S3**, **Redshift**). Developed automated workflows using **AWS Glue jobs** for data scrubbing, ensuring high data quality and streamlined reporting.
- Led a team of four to develop an event-driven referral system & incentive engine, elevating company revenue notably and reducing user acquisition costs.

SOFTWARE ENGINEER II

Jan 2020 - Mar 2023

- Developed an auto-renewal system, enabling seamless plan renewals, dynamic pricing offers, and flexible upgrades or downgrades based on user preferences. This solution reduced manual intervention and increased auto renewal coverage to 97% of all renewals and upgrades in the system, improving retention rates.
- Implemented an end-to-end AI-powered achievement certification system. Integrated with our **React** based client to capture user accomplishments. Leveraged serverless image pool generation to dynamically create personalized certificates based on configurable criteria. Automated the certification workflow, enhancing student satisfaction and retention through tailored digital achievements.
- Designed and implemented a dynamic supply & demand allotment system with nearly real-time accuracy, incorporating caching layers to optimize system efficiency.
- Developed an Internal Authentication SDK with advanced access control and claims management features, ensuring secure access to internal systems and resources.
- Optimized an ordered distributed messaging queue (**SQS**) with a bottleneck consumer, implementing various strategies to improve throughput and efficiency.

SOFTWARE ENGINEER

Jun 2018 - Dec 2019

- Developed a robust framework that efficiently generates and serves thousands of interconnected web pages from a backend service, leveraging **Server-Side Rendering** with Next.js to enhance SEO performance and scalability, resulting in significant improvements in overall search engine optimization (SEO), performance, and traffic flow.
- Improved the build process for a large-scale **Next.js** project, reducing build time by 30% through optimizations in bundling, resource handling, performance tuning and other critical improvements. Addressed both DevOps and core build processes, enhancing deployment speed in both production and staging environments.
- Built a Feedback engine to seamlessly accept, persist, and process feedback from multiple clients, enhancing the organization's feedback management process.

SOFTWARE DEVELOPER INTERN

Jan-July, 2017

- Contributed to the core architecture revamp of Cuemath, utilizing Django as the web framework & **Postgres** as the database, leading to enhanced system performance and scalability.
- Implemented API server connection using DRF(Django REST Framework) for communicating with application client.
- Developed an automated booking system with backend in Django and frontend using HTML and javascript.
- Created an Android application to track progress and integrated analytics, enabling the creation of personalized journeys for clients.

Skill Set

Programming Languages Python, NodeJS, Javascript, Java, Go
Frameworks & Services Flask, NextJs, Spring, GCP, ReactJS, Kafka, AWS - SNS, S3, Kinesis, Lambda
Familiar Technologies Postgres, NoSQL, Redis, Docker, Kubernetes

Education

PEC University of Technology

Chandigarh, India

B.E IN COMPUTER SCIENCE AND ENGINEERING

2014-2018