

FAHAD KHAN

Software Engineer

📧 kfahad5607@gmail.com
🌐 fahad-khan.vercel.app

🌐 github.com/kfahad5607

EXPERIENCE

Software Engineer

DNIF HYPERCLOUD

📅 01/2024 - present 📍 Mumbai, India

- **Kubernetes Migration & Query Performance**
 - Migrated a distributed SIEM platform ingesting up to **1 TB/day per customer** to a **Kubernetes-based shared compute architecture** with autoscaling Spark and Celery pods using **KEDA**, reducing AWS compute costs by **40%** and enabling fault-tolerant execution on spot instances
 - Designed and implemented **query segmentation** and **parallel execution** using ingestion metadata and pod capacity, improving performance by **3.2x** and reducing average query latency by **68.75%**
- **Caching and Cost Optimization**
 - Integrated **ZFS disk-level caching** and **Redis-based metadata caching** to serve recent data locally and minimize S3 & PostgreSQL reads, achieving **65% storage cost savings** and **90% reduction in DB metadata reads**
- **Resilient Task Scheduling**
 - Built a **license-aware task scheduler** with query quota enforcement, **Redis pub/sub** for deferred task execution, and resilient Celery task orchestration using **RabbitMQ as broker** for retry support, ensuring reliable alerting across multi-tenant workloads despite spot-instance interruptions
- **Log Ingestion and Transformation**
 - Developed a high-throughput pipeline capable of handling over **20,000+ events per second** for continuous log ingestion using **TCP & UDP** and **RabbitMQ** queues to process raw and transformed logs
- **Bulk Audit Logs Downloader**
 - Built a scalable log export service handling **tens of gigabytes** using **Celery + Redis**, with chunked processing and asynchronous uploads to **AWS S3**
- **Custom Query Language Parser**
 - Developed a Python parser to convert a custom query language into SQL, improving query success rate by **95%** and reducing pre-execution errors
- **High-Performance API Development**
 - Built and maintained **FastAPI-based** backend services integrated with PostgreSQL, Redis, and Celery, powering high-throughput data ingestion and querying workflows
- **Interactive Data Visualization Components**
 - Created dynamic, interactive charts and graphs with **React** and **TypeScript**, improving the clarity and usability of security analytics

Full-Stack Developer

Zillibit Interactive Private limited

📅 07/2021 - 12/2023 📍 Mumbai, India

- **Created and deployed SaaS Product with Secure Transaction System**
 - Developed a robust and scalable SaaS authoring tool, <https://zeltoauthoring.com> with Django and Vue.Js.
 - Developed the complete payment system by **integrating stripe and paypal**.
 - Developed the backend APIs, responsive frontend components and **integrated the two**.
- **SSO Integration and System Interoperability**
 - Successfully integrated Zeltoauthoring with ZeltoLMS, employing **Single Sign-On (SSO)** for seamless user experience, enhancing system interoperability and user convenience with protocols like **oAuth2.0** and **SAML**.
- **Optimizing Resource Management and Cost Reduction**
 - Engineered a resource optimization strategy allowing reuse of assets (images, videos, audios) across various user-created courses, resulting in over a **20% reduction in data storage and operational costs**.
 - Implemented a **caching mechanism utilizing Redis**, leading to a 30% decrease in database load and a 20% increase in system responsiveness
- **AWS service integration and containerization**
 - Solely designed and implemented the complete cloud architecture for ZeltoAuthoring on AWS with autocaling and load balancing, using various services such as **EC2, S3, cloudfront, lambda, RDS, SQS**, etc. Resulting in a 40% improvement in scalability and a 15% reduction in infrastructure maintenance costs.
 - Also devised the deployment architecture using **Docker and Docker compose** for easy and quick deployment. Resulting in 45% faster deployments.
 - Devised a solution using AWS Lambda to **generate thumbnails** for user-uploaded images, resulting in a **40% reduction** in bandwidth consumption and a **20% enhancement** in user experience.
- **Task Automation and System Maintenance**
 - Orchestrated automated tasks (deleting unused files, trashed courses, expired sessions, sending notification emails) **using Celery**, reducing manual intervention by 80% and ensuring a **25% increase in request response**.
 - Developed the CI/CD pipeline using Github actions, resulting in **5X deployment speed** and streamlining the deployment process.
- **Task Queuing and Optimization**
 - Designed a task queuing system using AWS SQS for generating exported zip files of course assets, **avoiding failure of Zip generation** for a large number of files.

Web development intern

Zillibit Interactive Private limited

📅 12/2019 - 12/2019 📍 Mumbai, India

- ◦ Developed a product management system for a tailor shop.
- ◦ Redesigned and simplified a rather complex user interface, while preserving all functionality.
- ◦ Collaborated with 2 fellow interns.
- ◦ Enhanced the functionalities of the system for smooth user experience.

PROJECTS

Cricbuzz Clone (Work in Progress)

📅 08/2024 - Present 📍 Mumbai, India
🌐 <https://github.com/kfahad5607/cricbuzz-clone>

The Cricbuzz Clone highlights my full-stack development skills, combining a robust backend built with **Node.js, TypeScript, Express, MongoDB**, and **PostgreSQL** with a dynamic and responsive frontend using **React.js, TypeScript, Tailwind CSS, and React Query**. I designed and implemented scalable APIs to manage user data, match statistics, and real-time updates while ensuring seamless integration with the frontend. The user-facing interface is complete, and I am currently working on an admin dashboard to extend platform capabilities. This project demonstrates my ability to deliver complete, high-quality applications across the stack.

PlacePrep

📅 11/2020 - 02/2021 📍 Mumbai, India
🌐 <https://www.youtube.com/watch?v=eYJR09lgCms>

Placeprep is a placement preparation platform for students to prepare for their placement drives built using MERN STACK. Placeprep allows students to practice their aptitude skills by taking various quizzes and their coding skills on the inbuilt online editor and compiler.

Cricket Scorer

📅 04/2020 - 05/2020 📍 Mumbai, India
🌐 <https://quirky-panini-a0df5c.netlify.app/>

Created cricket run scorer app using reactJs which can be used to keep track of your match

EDUCATION

Bachelor of Computer Engineering

Rizvi College of Engineering

📅 09/2017 - 08/2021 📍 Mumbai, India

CGPA
8.6 / 10.0

H.S.C.

SIES College of Arts and Science

📅 08/2015 - 08/2017 📍 Mumbai, India

%
72.4 / 100

S.S.C.

Little Flower English School

📅 07/2003 - 07/2015 📍 Mumbai, India

%
88.0 / 100

SUMMARY

Software Engineer with a track record of building **performant, scalable, and secure systems** across the entire stack, including **frontend, backend, and infrastructure**. I excel in taking **complete ownership** of complex products and driving them from **concept to deployment**. Passionate about solving **high-impact problems** and continuously evolving with **new technologies**. Seeking opportunities where I can own **end-to-end product development** and make **meaningful technical contributions**.

SKILLS

Frontend

Next.Js **React.Js** **TypeScript**

React Query **Tailwind CSS** **Vue.Js**

Backend

Python **Django** **FastAPI** **Flask** **Node.js**

Express.js **TypeScript**

Database & Message Brokers

PostgreSQL **MongoDB** **MySQL** **Celery**

Redis **RabbitMQ**

Cloud & Devops

Docker **Kubernetes** **AWS EC2** **AWS RDS**

AWS Lambda Function **AWS API Gateway**

AWS S3 **Github Actions**

AI & LLMs

Cursor AI

PERSONAL INFO

📞 +91-9987305790
📧 kfahad5607@gmail.com
🌐 fahad-khan.vercel.app
🌐 github.com/kfahad5607
🌐 linkedin.com/in/fahad-khan-6050b0152
📍 Mumbai, India

LANGUAGES

English
Advanced
● ● ● ● ● ●

Hindi
Advanced
● ● ● ● ● ●