FAHAD KHAN
Software Engineer

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🔗 fahad-khan.vercel.app

EXPERIENCE

Software Engineer
DNIF HYPERCLOUD
📅 01/2024 - present   📍 Mumbai, India

- **Building next-gen SIEM**
  - **Bulk Audit Logs Downloader:** Designed and implemented a scalable service to handle **tens of gigabytes** of log downloads. Utilized **Celery** with **Redis** to create a pipeline that breaks large queries into smaller chunks, processes them asynchronously, and uploads the resulting CSV files to **AWS S3**.
  - **Audit Logs Downloader UI:** Built a responsive, user-friendly interface with **React** and **TypeScript**, enabling customers to track download progress, pause/resume operations, and retry failed downloads seamlessly.
  - **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.
  - **Optimized Log Querying:** Integrated **Redis** caching to reduce database queries by 90%, optimizing metadata retrieval and reducing the load on **PostgreSQL**, leading to faster query execution times and reduced operational costs
  - **Dynamic JSON-Based Form Builder:** Created a reusable, type-safe form system with **React** and **TypeScript**, allowing full configuration through JSON for flexible and dynamic usage.
  - **Custom Query Language Parser:** Developed a Python-based parser to validate and convert a custom query language into SQL, improving query success rate by **95%** and reducing errors before execution.
  - **Secure Webhook Endpoint:** Built a webhook endpoint supporting multiple authentication methods (**bearer, basic,** and **HMAC**) to ensure secure and scalable log ingestion.
  - **Interactive Data Visualization Components:** Created dynamic, interactive charts and graphs with **React** and **TypeScript**, improving the clarity and usability of security analytics.
  - **Data Fetching & Caching:** Leveraged **React Query** for periodic data fetching and caching, enabling seamless integration with **real-time** data sources.

Full-Stack Developer
Zilliobit 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 autoscaling 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
Zilliobit 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=eYJRO9IgCms

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 focused on building performant, scalable products and solving complex problems through complete ownership of **frontend**, **backend**, and **infrastructure**. I thrive on delivering secure systems and continuously learning new technologies. Looking for opportunities where I can take full responsibility for product development, from concept to **deployment.**

SKILLS

Frontend
Next.Js   React.Js   TypeScript   React Query   Tailwind CSS   Vue.Js

Backend
Python   Django   Flask   Node.js   Express.js   TypeScript

Database & Message Brokers
PostgreSQL   Celery   Redis   RabbitMQ   MongoDB

Cloud & Devops
AWS EC2   AWS RDS   AWS Lambda Function   AWS API Gateway   AWS S3   Docker   Kubernetes   Github Actions

PERSONAL INFO

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📍 Mumbai, India

LANGUAGES

English
Advanced   ●●●●○

Hindi
Advanced   ●●●●○