



AAKASH CHAUDHARY

FULL STACK DEVELOPER

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SUMMARY

Full Stack Developer with 3 years of experience specializing in developing software solution. Proven track record of designing, developing, and deploying dynamic web applications and microservices. Expertise in building responsive front-end interfaces and scalable back-end systems while leveraging modern technologies to optimize performance and streamline development processes. Strong proficiency in database design and querying, with a focus on delivering clean, maintainable code and ensuring cross-platform compatibility. Adept at working in agile environments, collaborating effectively with cross-functional teams, and continuously enhancing technical skills to stay ahead of industry trends.

SKILLS

- Javascript, Typescript, ReactJs, NextJs
- Redux, Zustand, Context API, Tanstack Query
- Linux, Server Administration, Keycloak
- NodeJs, ExpressJs, Java, Scala, Http4s, Tapir, ZIO
- PostgreSQL, MongoDB, Dgraph, Apache Cassandra
- Functional Programming, Generics Programming

EXPERIENCE

WiseYak Solutions Inc

FULL STACK DEVELOPER

Naxal, Kathmandu

AUG 2021 – DEC 2024

Contributed in development of EMR(Electronic Medical Record) System which aimed for hospitals to go paperless workflow. Articulated system design with proper user experience, performance and reliability.

- Refined the form creation page using **React DnD**, adhering to end-user design principles to ensure intuitive interaction and usability.
- Engineered the application state management using **Zustand** and **Context API**, ensuring a scalable and efficient state handling solution across the frontend.
- Improved the web application frontend performance by 15% implementing caching, memoization and reducing rendering overhead.
- Developed generic **API integration** using **TypeScript generics** and **Tanstack Query**, following a three-layer architecture pattern for clean, maintainable, and efficient code.
- Contributed to the core modules of **POS, Inventory, HR, Accounting**, and overall **ERP** solution system in **Scala/Java** using **http4s** and **Tapir**.
- Ensured safe computation and optimized performance by handling side effects, resource management, and concurrency with the **ZIO** library, resulting in a 20% performance increase.
- Managed the **reporting server** to generate real-time patient data using a **microservices** architecture in **Node.js**.
- Contributed to the **Entity-Attribute-Value (EAV)** schema design in **PostgreSQL**, ensuring effective transactional data management and event tracking.
- Implemented **Role-Based Access Control (RBAC)** using **Keycloak**, securing the application through effective authorization mechanisms.
- Orchestrated the containerization of the core application, backup systems, and databases using **Docker** and scheduled **cron jobs** for maintenance tasks.
- Configured **domain and subdomain setups** on a **Virtual Private Server (VPS)** using **Nginx** for optimized routing and performance.
- Implemented **data encryption** and **SSL integration**, ensuring secure communication and compliance with security best practices.

Key Achievements

- First iteration of the EMR System was successfully launched at Government hospitals like Dhulikhel Hospital, NetraJyoti Eye Hospital.
- Able to track data of almost ten thousand patients including staff.

EDUCATION

University of East London

MASTERS OF COMPUTER SCIENCE

London, UK

JAN 2025 – PRESENT

Tribhuwan University

BACHELORS OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Kathmandu, Nepal

SEP 2017 – AUG 2021

ADDITIONAL SKILLS

- Server Administration, Project Management, Mobile Development, Linux
- Good English communication skills and multilingual
- Guitar, Music, Anime, Motorcycling, PC Games