

Ketan Raj

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Education

Chandigarh University

Bachelor of Engineering, Computer Science Engineering

August 2020 – July 2024

CGPA: 7.94

Skills

Languages/Database: JavaScript, C++, Python, Java, MySQL, MongoDB, React.js, Next.js, Tailwind CSS, Typescript, HTML

Software & Tools: Android Studio, Gradle, GitHub, Postman, AWS, Retool, DBT

Soft Skills: Leadership, Event Management, Public Speaking, Effective Planner, Analytical and Problem-Solving Skills

Work Experience

Clear

July 2024-Present

Integration Engineer Intern

Bengaluru

- Developed an autonomous **Python-OpenAI framework** for **data extraction** and field mapping, reducing manual specification time by **95%** through **automated validation**, resulting in **90%** decrease in specification-related queries and eliminating manual rework for integration team.
- Strengthened Unity data model by architecting advanced **SQL** validation queries and **Python** automation scripts, implementing **predictive error detection** with real-time validation that prevented **98%** of **ingestion failures** while reducing onboarding time by **95%**.
- Optimized **data ingestion** workflows using **SQL** queries and **Python** scripts, implementing **DBT** transformations with **Retool** monitoring dashboards, reducing integration failures by **99%** and cutting issue resolution time from hours to minute.
- Led comprehensive **testing** of Clear GL Stream product by processing **18M+** rows across **40+** tables, uncovering critical performance bottlenecks in handling large-scale enterprise data, **collaborating** with development team to implement optimized indexing and batch processing solutions ensuring seamless data handling.

Comfort Build

February 2024-May 2024

Software Developer

Remote

- Engineered responsive admin dashboard using **React.js**, **Redux** for state management, and **Tailwind CSS**, implementing **20+** features including dynamic analytics, user management, and automated reporting tools, reducing administrative overhead by **80%** while ensuring mobile-first experience.
- Designed comprehensive interface system for **30+** screens using **Figma**, developing responsive layouts and component libraries for web admin portal and **Android** application, achieving **93%** stakeholder approval through consistent **UI/UX** pattern.
- Developed modular inventory dashboard using **React.js** components and **Tailwind CSS**, implementing real-time data synchronization, automated stock level monitoring, and order status tracking system, reducing manual reconciliation by **80%** while ensuring **95%** data accuracy.

Achievements

- Secured **Global Rank 2128** in Google Hash Code.
- Secured **2nd** spot in the LGBTQ+ website category at the "**Hack the Mountain Hackathon**".
- Facilitated the education of **300+** students, covering topics such as **DSA**, and **Frontend Development**.

Projects

Imagine | **Next.js MongoDB Tailwind Stripe Clerk Cloudinary Vercel** | [Source Code](#)

March 2024- July 2024

- Built a scalable **SaaS platform** using **Next.js**, **MongoDB**, **Tailwind**, integrating **Cloudinary** for image processing, **Stripe** for payments, and **Clerk** for authentication, handling **2000+** daily image transformations with **99.9%** uptime on **Vercel**.

Luxe Lenses | **React Tailwind Firebase AWS** | [Source Code](#)

December 2023- February 2024

- Built an **e-commerce platform** using **React**, **Tailwind**, **Firebase** authentication, and **AWS** deployment, implementing dynamic product filtering, real-time inventory management, and secure payment processing for eyewear products optimizing performance to handle **200%** increase in user traffic.

Certifications

AWS Cloud Technical Essentials