

# Ketan Raj

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## Work Experience

### Google

April 2025 - Present

Software Application Developer Appt.

Bengaluru

- Engineered a browser-based **noVNC** client in Pantheon (**Angular/K8s**) to resolve a high-priority gap for enterprise customers. Replaced manual CLI workarounds with a seamless '**click-to-console**' UX, directly improving troubleshooting efficiency.
- Tackled a systematic failure in the "Site Creation" workflow caused by missing inputs. Integrated mandatory region-selector validation in the **Angular** frontend, effectively eliminating backend errors and enabling all users to provision edge zones independently.
- Confronted excessive operational toil in infrastructure management by architecting a **multi-agent AIOps** system (**Python/ADK**) similar to **Amazon DevOps Guru** but with active remediation. Integrated with **Cloud Asset Inventory** to automate discovery, reducing human intervention by **60%** and cutting Mean Time To Resolution (**MTTR**) by **50%**.
- Accelerated incident resolution for a telecom client by developing the "Airtel Works Assistant." Built a system combining **OCR, BigQuery, Semantic Search and ADK** to ingest image-based alerts and retrieve SOPs, streamlining the support workflow and earning formal kudos for successful onboarding.
- Simplified cloud resource management by innovating "**Dev0**," an **agentic orchestrator for CI/CD and Terraform**. Enforced strict "Human-in-the-Loop" protocols for destructive commands, ensuring operational safety while streamlining infrastructure provisioning.

### Clear (formerly ClearTax)

July 2024 - March 2025

Software Developer

Bengaluru

- Crafted the Tax Savings Deductions section to tackle user challenges with inefficient financial data input and errors in tax declarations. Delivered an **interactive and structured UI** with the help of **React.js and Tailwind** for real-time validation and error handling, which **increased user engagement by 30%** and **reduced incorrect form submissions by 40%**.
- Overhauled the summary feature for the Loans section to enhance performance and elevate user experience. Enabled dynamic rendering of loan details (e.g. 80E for education loans, 80EE for home loans) with **real-time updates**, edit/remove functionality, and a streamlined "Add More Details" feature, which **slashed loading times by 50%** and **accelerated user interaction speed by 40%**.

## Skills

**Languages:** C/C++, Python, Java, JavaScript, TypeScript

**AI & Machine Learning:** Generative AI Agents, RAG, Google ADK, Vertex AI (Gemini), Vector Search, Prompt Engineering.

**Frameworks & Tools:** React, Next.js, Tailwind, Jest

**Cloud & DevOps:** AWS, Google Cloud, Git, Docker

## Projects

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

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

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

- 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.

## Achievements

- Secured **2<sup>nd</sup>** spot in the LGBTQ+ community app/website category at the "**Hack the Mountain Hackathon**".
- Secured **3<sup>rd</sup>** spot in the **Clear** hackathon implementing seamless **Slack UI integrations**.
- Facilitated the education of **300+** students and FSRs, covering topics such as **DSA**, and **ADK**.

## Certifications

**AWS Cloud Technical Essentials**

**Web Development**

**Software Testing**

## Education

**Chandigarh University**

August 2020 – July 2024

B.E., Computer Science Engineering

**CGPA: 7.94**