

Kamil Ilyas

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Summary

Software Engineer experienced in full-stack web development with React, Next.js and Node.js. Currently building a dental practice management platform that enables dentists to create websites, run Google and Meta ads and track performance through integrated analytics. Strong background in developing user-friendly, scalable applications across e-commerce, hospitality and healthcare, with hands-on experience in API integrations, Stripe payments and modern web technologies.

Education

FAST-NUCES

Bachelor of Science in Software Engineering

Aug 2020 - June 2024

Islamabad, Pakistan

Experience

Associate Software Engineer

Aug 2024 - Present

Thathal ITS

- Built and maintained **firststopdental.com** platform enabling dentists to create custom websites by selecting templates and themes. Integrated built-in domain and subdomain services for seamless website deployment and management.
- Developed advertising management features integrating **Google Ads** and **Meta Ads APIs**, allowing dentists to create, publish, update and delete ads directly from the platform with analytics tracking.
- Developed AI-powered content generation system by integrating **OpenRouter API** to analyze dentist website data. Automatically generates targeted keywords, ad headlines and campaign descriptions for advertising.
- Integrated **PostHog** analytics to track website performance including patient visits, user interactions, session duration and geographic data to help dentists understand their audience better.
- Improved **SEO** functionality for dentist websites by implementing optimization strategies for both standard web crawlers and Chrome JavaScript-enabled rendering.
- Implemented dynamic **HTML/CSS/JS** code input functionality allowing dentists to inject custom code blocks into their websites. Enables advanced personalization and interactive features beyond standard template limitations.
- Integrated **Stripe** payment gateway for secure domain purchases, buying tokens for posting ads and managing recurring subscription billing across the platform.
- Built automated web scraping system using **Puppeteer** and **Cheerio** to extract Google reviews and website metadata from existing dental practice websites. Streamlines the onboarding process for dentists migrating to the platform.
- Worked on both frontend and backend development using **Next.js**, **Node.js** and **PostgreSQL** to ensure the platform runs smoothly and efficiently for all users.

Projects

Review Authentication System | React, Python, MongoDB, AWS

Sep 2023 - June 2024

- Developed a trust-based rating platform using **Machine Learning** algorithms to identify and filter spam reviews, helping users make better purchasing decisions.
- Implemented sentiment analysis and aspect-based review categorization using **Python** and **NLTK** to analyze customer feedback and provide detailed product insights.
- Built product comparison and recommendation features using collaborative filtering, allowing users to compare similar products based on verified reviews.

Restaurant Management System | React, MongoDB, Express, Node.js

Nov 2022 - Dec 2022

- Built a comprehensive **MERN stack** application to manage restaurant operations including inventory, orders, staff management and customer relations.
- Developed dashboard for tracking daily sales, order status and performance metrics using **React** components and **Express.js** API endpoints.
- Collaborated with team members using **Git** version control and contributed to both frontend UI development and backend API functionality.

Expertise

Programming Languages: JavaScript, Python, Java, C/C++, TypeScript, HTML, CSS

Frameworks & Libraries: React, Next.js, Node.js, Express.js, Flask, Tailwind CSS, Bootstrap

Databases & Cloud: PostgreSQL, MongoDB, MySQL, AWS (EC2, S3, Lambda), Docker, Kubernetes

Developer Tools: Git, Jenkins, VS Code, PyCharm, IntelliJ IDEA, Postman, Figma

Specialized Libraries: pandas, NumPy, scikit-learn, Matplotlib, OpenCV, NLTK, BeautifulSoup