Kratharth Hegde

Full Stack Engineer

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Summary

4 years of experience building dynamic web applications with a focus on modern frameworks and performance. Proficient in React, Next.js, JavaScript, TypeScript, HTML5, CSS3 and Tailwind CSS

Experience

Qualcomm   **November 2023 - Present**

Software Engineer 2   Bengaluru, Karnataka

- Engineered a customizable white-label UI application using **Next.js** showcasing Qualcomm's inferencing solution, empowering diverse customer needs. Delivered comprehensive documentation, ensuring streamlined development processes for future iterations and adoption by **5+** enterprise clients.

- Built a TypeScript/JavaScript SDK as a wrapper for AI solution endpoints, enabling seamless installation as a package. This SDK supports integration with frameworks like **Langchain** and facilitates access to **inference APIs,** serving **10,000+ daily active users.**

- Created a user-friendly playground for the white-label solution, hosted on the company's website. This tool has garnered global traction, being piloted by **50,000+ users across 20+ countries.**

  Take a look at the playground here: https://aisuite.cirrascale.com/

- Built **2** context providers for an internal VS Code extension that leverages LLM capabilities, impacting over **40,000** users.

- Launched a desktop version of the solution, packed with additional features. Successfully deployed as a pre-installed application on **6 million** PCs for a customer in the middle east, driving robust user engagement and adoption globally.

Qualcomm   **July 2021 - November 2023**

Software Engineer 1   Hyderabad, Telangana

- Designed and developed high-performance, secure front-end applications used by **100+** semiconductor engineering teams, leveraging technologies like Angular, React, and Next.js. . Adhered to best design patterns and security practices to ensure robustness.

- Revamped a key application to significantly enhance user experience, achieving a **20% reduction** in bundle size, cutting load time by **2 seconds**, and increasing user adoption by 20%. Implemented advanced techniques like lazy loading, caching, and pre-loading of assets, alongside improved design consistency, documentation, and navigation.

- Collaborated on back-end development tasks, ensuring seamless integration and functionality across applications, which directly contributed to **5+** critical projects.

- Automated data synchronisation for **10+ datasets** using Python cron scripts, while maintaining a **99.999%** uptime and eliminating manual intervention.

Qualcomm   **January 2021 - July 2021**

Interim Engineering Intern   Bengaluru, Karnataka

- **Optimized** the Qualcomm computing cluster by analyzing workflows, commands, and options of the existing HPC solution. Designed and developed a command translator framework to migrate workflows seamlessly to **6 alternative HPC solutions**, enhancing efficiency and resource allocation.

- Reduced operational costs by **$5 million** annually and minimized the learning curve by **2 weeks**, expediting user onboarding and boosting productivity across teams.

Drivado   **October 2019 - December 2019**

Full Stack Developer

- **Formulated and built** an MVP for a chauffeur application, offering seamless booking and ride management for **10000+ pilot users**.

- **Integrated third-party tools like Mailchimp** to enhance user engagement and communication. Automated email campaigns and notifications were successfully implemented, improving customer retention rates and streamlining marketing efforts.

Skills

Languages: JavaScript, Python, HTML5, Typescript

JavaScript Frameworks: React, NextJS, Angular

Styling Languages: CSS3

Databases: MongoDB, SQL

Styling Frameworks: Material UI, Tailwind CSS, Bootstrap, Shadcn UI

Documentation: MkDocs, Docusaurus

Wire-framing: Pencil

Testing Frameworks: Jest

Backend Frameworks: Node.js, Express.js

Others: Parcel, AG Grid, Zod

Education

Birla Institute of Technology, Pilani   **October 2022 - October 2024**

Data Science   Master of Technology with specialisation in Data Science

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Introduced me to the world of AI and Machine Learning while helping me realize the importance of correct visualisations

Relevant Coursework: Machine Learning, Deep Learning, Data Visualisation, Introduction to Artificial Intelligence.

B.M.S. College of Engineering   **August 2017 - June 2021**

Computer Science   B.E

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Relevant Coursework: Web Development, Databases, Operating Systems, Algorithms.

Projects

Wordle clone   **March 2025**

🔗 https://kratharth-1999.github.io/wordle-clone/code/

Wordle is a web-based word game. In the game, players have six attempts to guess a five-letter word, receiving feedback through colored tiles that indicate correct letters and their placement. A single puzzle is released daily, with all players attempting to solve the same word.

Tech Stack: HTML, CSS, Javascript

BMSCE Discussion Forum   **January 2021**

A Quora like discussion forum enabling the students of BMSCE to discuss anything under the sky.

Tech Stack: HTML5, CSS3, JavaScript, Bootstrap