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
9.1

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
9.72

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