

Abhishek Hegde

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EDUCATION

Northeastern University , Boston, MA Master of Science in Information Systems	GPA-3.8/4.0
Courses: Application Engg, Web Design & UX Engg, Object-Oriented Design, Program Structures & Algorithms	May 2024
Sapthagiri College of Engineering , Bangalore, India Information Science & Engineering,	GPA-3.6/4.0
Courses: Machine Learning, DBMS, Software Testing, Network & Cloud Computing, Web Technology	Sep 2019

WORK EXPERIENCE

Mid-level Software Engineer | Sókn Engineering | Montana, United States Sep 2024-May 2025

- Designed and developed full-stack web application using **React**, **TypeScript**, and **Node.js**, delivering real-time dashboards, interactive UI flows, and state tracking with <30ms response latency.
- Built APIs and integrated backend logic for real-time data processing using **RESTful** and **WebSocket** patterns, with session-based cache using **Redis** and **PostgreSQL** persistence.
- Debugged production issues involving UI rendering, state updates, and API response handling, improving system stability and user satisfaction.
- Refactored bar generation UI and live dashboards using **TypeScript** and **Next.js**, improving rendering speed by 2x times and UX responsiveness for real-time data consumers.
- Led the development of a dynamic report dashboard using **GraphQL**, **React** and **Node.js**, enabling efficient on-demand data rendering in form of reports and improving query response efficiency by 42%.
- Integrated **OpenAI** GPT APIs and fine-tuned logic into a production chatbot system built on **Cloudflare Workers** to assist with support queries and search, driving a fairly 35% increase in UX responsiveness.
- Maintained high code quality with unit and integration testing in Jest and Postman, participating actively in peer reviews and **SDLC**-wide quality gates.
- Explored integrations with Firebase for internal tooling & push notifications, and used **Auth0** for secure user authentication (OAuth, JWT); Implemented **CI/CD** pipelines, supported **Docker- Kubernetes** based deployments.

Software Engineer | UI-UX & API Developer | Legato Health Technologies Oct 2020-Aug 2022

- Enhanced the company's website UI/UX and optimized APIs, leveraging the **MERN** stack (MongoDB, Express.js, React, Node.js), Angular, **TypeScript**, and HTML-CSS, resulting in a remarkable 65% surge in website traffic.
- Integrated REST APIs for backend communication and optimized state management in **JavaScript**-based SPAs.
- everaged advanced JavaScript frameworks and libraries such as JavaScript(ES6) React, Next and Redux to architect highly responsive, scalable UIs for 10+ projects, resulting in increased user engagement.
- Participated in **Agile** ceremonies including standups, grooming, retrospectives, and sprint reviews; collaborated with architects and product owners to scope features and address tech debt.

Software Engineer | Novel Office Aug 2019-Sep 2020

- Designed and built user-friendly, responsive websites, employing advanced UI & UX techniques and front-end technologies, resulting in an impressive 80% surge in website traffic and user engagement
- Maintained databases, schema definition, optimized SQL queries. Refactored legacy modules, added tests, and enhanced readability across shared codebases
- Boosted site speed by 70% using Lighthouse, code-splitting, and optimized asset loading, contributing to a 2x increase in organic traffic and leads.

Software Engineer Intern | TCS ION Jan 2019-Mar 2019

- Developed a predictive model to identify credit card defaulters using machine learning techniques.
- Completed a certification on ‘Data Science and Analytics Program’.

PROJECTS

- AI Powered Career Advisor** | *React, Node.js, Flask, Python, OpenAI API, MongoDB*
Built a full-stack application to deliver personalized job suggestions using GPT and collaborative filtering; Created a responsive, component-based **UI** using **React** and styled components. Integrated OpenAI for natural-language recommendations and used Flask to handle backend queries
- Tiffin Tribe – Ordering Application** | *React, Node.js, PostgreSQL, REST APIs*
Built a mobile-friendly React frontend integrated with backend REST APIs in Node.js. Used PostgreSQL to manage user profiles and order data, and implemented login authentication logic with JWT. Created prototypes using figma and also converted designs into functional app using React-Native.

SKILLS

Frontend:	React, Angular, TypeScript, JavaScript, GraphQL, HTML/SCSS, MUI, Tailwind
Backend:	Node.js, Express, REST APIs, WebSockets, socket.io OAuth2, JWT, Python, Spring Boot
Architecture:	Microservices, Event-driven, WebSocket, Auth0, Docker, Kubernetes, CI/CD
Databases & Cloud:	MySQL, PostgreSQL, MongoDB, Redis, DB4O, AWS, Google Cloud, Cloudfare
Other Skills:	SEO, UX/UI Design, Agile/Scrum, Jira, Jenkins, Git, Github Actions, API design
Testing:	Jest, Postman, Unit + Integration Testing, Debugging, Logging, E2E