

VENKATESHAN KOKKATTU

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Versatile Software Engineer with 3+ years of experience in web application development, QA automation, and project management. Proven track record of leading cross-functional teams to deliver robust, scalable solutions, from advanced testing frameworks to optimized release pipelines. Passionate about GenAI and ML, driving digital workplace transformation and measurable impact.

EDUCATION

Boston University, M.S. in Computer Science (GPA: 3.92)

May 2025

Mumbai University, B.S. in Computer Science (GPA: 3.97)

June 2021

WORK EXPERIENCE

Reality AI Lab

Software Engineering Intern

Jan 2025 - Present

- Spearheaded development of interactive, responsive user interfaces using React for an AI-powered teaching app, boosting user engagement by 40% and reducing quiz generation time from 5 minutes to under 1 minute.
- Leveraged modern web frameworks and agile methodologies to build a user-centric, cross-device platform, ensuring seamless functionality and robust performance.
- Implemented rigorous testing protocols and QA automation to optimize performance, reducing bug reports by 60% and maintaining a user satisfaction rating above 4.5.

Twelve Springs Limited

Project Manager

Mar 2023 - Jan 2024

- Spearheaded a cross-functional SCRUM team of 15 to deliver innovative mobile and web applications from concept to deployment for various sectors (e.g., healthcare, e-commerce), achieving a 20% increase in on-time completions and cutting project timelines by 2 weeks.
- Implemented agile best practices—daily stand-ups, sprint retrospectives, and Kanban workflows—to double bottleneck resolution speed and enhance team productivity.
- Streamlined cross-team communication and optimized project workflows, driving operational efficiency and saving \$80,000 in overhead while ensuring high-quality, scalable product delivery.

Software Engineer

Apr 2021 - Mar 2023

- Revamped end-to-end testing strategy using Cypress.io and Selenium, combining manual and automated testing within CI/CD workflows to boost regression efficiency and cut release cycles by 3 days.
- Developed comprehensive test plans and executed regression tests using Postman, Cypress.io, and Selenium, ensuring robust test coverage and early defect detection.
- Simulated real-world conditions to design performance monitoring dashboards that reduced response times from 1.2s to less than 0.9s, decreased incident resolution times by 40%, and saved over 100 debugging hours per release cycle.

Seagull International

Software Engineer

Mar 2020 - Mar 2021

- Developed responsive, cross-device web applications using Bootstrap, increasing platform accessibility by 1.5M users and improving page load speeds from 3.2s to 2.7s.
- Designed and implemented mobile-first UI components for scalability and cross-browser compatibility across 20+ devices, ensuring a seamless user experience.
- Collaborated in agile sprints and utilized Bitbucket for version control to drive continuous integration and timely delivery of high-quality front-end features.

Godrej Security Solutions

Software Engineering Intern

Oct 2019 - Feb 2020

- Selected from over 200 IT candidates for Godrej's pioneering IoT program; contributed to next-gen home protection device by defining functionality and conducting UX testing.
- Supported the creation of a web and mobile-based companion app that integrated the device with other IoT products in the home ecosystem, enhancing interoperability by 20% and accelerating troubleshooting response times through streamlined communication protocols

ACADEMIC PROJECTS

Quiz Architect - Led a team of 5 to develop a comprehensive web-based quiz platform using ReactJS and NodeJS, overseeing the entire project lifecycle—from initial design and development to deployment and detailed documentation. Additionally, integrated Firebase Authentication and the Google Sheets API to deliver customizable quizzes with real-time results and actionable analytics, showcasing my full-stack expertise and strong API integration skills.

Cloak Feedback (GPT-3.5-turbo) - Developed a secure anonymous messaging app using NextJS and TypeScript, leveraging dynamic routing and server-side rendering for optimal performance and responsiveness. Integrated the ChatGPT API with advanced Gen AI capabilities to deliver intelligent, context-aware message suggestions that significantly boost user engagement. Additionally, implemented robust authentication protocols using email/username login, bcrypt encryption, and MongoDB, ensuring scalable and secure data management throughout the application.

Cold Email Generator (Llama 3.2) - Engineered an AI-driven cold email generator using Python, Streamlit, Groq, LangChain, and Llama 3.2 to automatically extract job posting details and generate personalized, high-impact emails for job seekers. Leveraged a RAG-like approach by integrating a vector database to dynamically retrieve relevant portfolio links based on job descriptions, significantly boosting recruiter engagement and streamlining the job search process through scalable, data-driven automation.

CORE SKILLS : JavaScript(ReactJS) | TypeScript | NodeJS | Python | Bootstrap | C++ | C# | .NET | Cypress.io | Firebase | MongoDB | Agile | JIRA | Confluence | PostMan | Bootstrap | Selenium | JMeter | Github | BitBucket