

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

Feb 2025 - Present

- Spearheaded development of interactive, responsive user interfaces 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 create a user-centric platform that delivers seamless functionality and cross-device compatibility.
- Implemented rigorous testing protocols and performance optimizations, reducing bug reports by 60% and maintaining a user satisfaction rating above 4.5 out of 5.

Twelve Springs Limited

Project Manager - Agile

Mar 2023 - Jan 2024

- Led a cross-functional SCRUM team of 15 to drive timely project delivery across complex digital solutions, including healthcare and e-commerce applications, resulting in a 20% increase in on-time completions and a 2-week reduction in project timelines.
- Implemented daily progress tracking and agile strategic adjustments to double bottleneck resolution speed, reducing delays and saving \$40,000 in overhead costs while enhancing overall project performance.

Quality Assurance Automation Engineer

Apr 2021 - Mar 2023

- Revamped the end-to-end testing strategy using Cypress.io and TypeScript, and streamlined CI/CD workflows in Visual Studio, boosting team test execution efficiency and reducing release cycles by 3 days.
- Developed comprehensive test plans and simulated real-world conditions to design performance monitoring dashboards, reducing regression bugs, cutting response times from 1.2 to less than 0.9s, and decreasing incident resolution times by 40% while saving 100+ debugging hours per release cycle.

Godrej Security Solutions

Software Engineering Intern

Oct 2020 - Feb 2021

- 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

Seagull International

Software Development Intern

Feb 2019 - May 2019

- Developed responsive, cross-device websites using Bootstrap—expanding platform accessibility by 1.5M users, improving load speeds from 3.2s to 2.7s, and designing mobile-first UI components for scalability and compatibility across 20+ devices.
- Collaborated in agile sprints and utilized Bitbucket for version control, ensuring seamless integration and timely delivery of high-quality front-end features.

ACADEMIC PROJECTS

Quiz Architect:

- Led a team of 5 to develop a web-based quiz platform using ReactJS and NodeJS, managing full-cycle documentation from development through deployment.
- Integrated Firebase Authentication and the Google Sheets API to deliver customizable quizzes with real-time results and actionable analytics.

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.
- Integrated the ChatGPT API with Gen AI capabilities to deliver intelligent, context-aware message suggestions that boost user engagement.
- Implemented robust authentication using email/username login, bcrypt encryption, and MongoDB for scalable, secure data management.

Cold Email Generator (Llama 3.1):

- Engineered an AI-driven cold email generator using Python, Streamlit, Groq, LangChain, and Llama 3.1 to extract job posting details and generate personalized, impactful emails for job seekers.
- Leveraged a RAG-like approach by integrating a vector database to dynamically retrieve relevant portfolio links based on job descriptions, optimizing recruiter engagement and accelerating the job search process through scalable, data-driven automation.

CORE SKILLS

JavaScript(ReactJS, NextJS) | TypeScript | NodeJS | Python | Bootstrap | C# | .NET | Cypress.io | Firebase | MongoDB | Agile | JIRA | Confluence