VENKATESHAN KOKKATTU

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Versatile Software Engineer with 4+ 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: 3.93) — 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 the design and development of interactive, responsive UI components using React, JavaScript, and modern web frameworks for an AI-powered teaching app, increasing user engagement by 40% and reducing quiz generation time from 5 minutes to under 1 minute.
- Engineered a cross-device, user-centric platform leveraging agile methodologies, component-based architecture, and state management to ensure seamless functionality, high performance, and optimal UX.
- Implemented comprehensive automated testing strategies to optimize performance, reducing bug reports by 60% while maintaining a user satisfaction rating above 4.5.

Twelve Springs Limited

Project Manager — Mar 2023 - Jan 2024

- Led 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 and championed agile best practices—including daily stand-ups, sprint retrospectives, and Kanban workflows—to proactively identify and eliminate bottlenecks, doubling resolution speed and significantly enhancing overall team productivity.
- Streamlined cross-team communication and re-engineered project workflows, enhancing stakeholder alignment and operational efficiency while reducing overhead costs by $80,000 and consistently delivering scalable, high-quality solutions.

Software Engineer — Apr 2021 - Mar 2023

- Revamped testing strategy by integrating Cypress.io and Selenium within CI/CD pipelines, blending manual and automated approaches to boost regression efficiency and shorten release cycles by 3 days.
- Developed detailed test plans and leveraged Postman for comprehensive API testing, ensuring robust coverage and early defect detection across multiple application layers.
- Engineered performance monitoring dashboards by simulating real-world conditions, reducing response times from 1.2s to under 0.9s, cutting incident resolution times by 40%, and saving over 100 debugging hours per release cycle.

Seagull International

Software Engineer — Mar 2020 - Mar 2021

- Engineered responsive, cross-device web applications using Bootstrap and integrated REST APIs, 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 that ensured scalability and cross-browser compatibility across 20+ devices, enhancing the user experience through thoughtful SDLC practices.
- Collaborated in agile sprints, contributing to a Microservices architecture while leveraging 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.
- Facilitated 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 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 | Playwright | Firebase | MongoDB | Agile | JIRA | Confluence | PostMan | Selenium | JMeter | Github | BitBucket | Docker | AWS | GCP | NoSQL | SQL