KEERTHI REDDY ELLANKI

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SUMMARY

Versatile software engineer with expertise in frontend and backend development, specializing in building scalable, responsive web applications and optimizing microservices for high-performance systems. Passionate about software architecture, cloud infrastructure, and enhancing user experiences through efficient design and development.

CORE COMPETENCIES

- **Programming Languages:** Java, Python, JavaScript, Typescript, SQL, Tailwind CSS, HTML, CSS.
- **Frameworks**: Spring Boot, React, Angular, Node.js.
- **Cloud**: AWS (ECS, Route 53, CloudWatch, CloudFormation, EC2 Auto-Scaling, S3, API Gateway, Lambda, IAM), Azure DevOps, Azure SQL
- **Tools**: STS, VS Code, JMeter, Postman, MySQL, PostgreSQL, App Dynamics, Docker, Kubernetes, Splunk, Figma, WordPress, Git, Jira, MS Office.
- **Miscellaneous**: Server-Side Rendering, Service Oriented Architecture (SOA), CI/CD, Object Oriented Programming, Software Development Life Cycle (SDLC), Test-Driven Development (TDD), RabbitMQ, Kafka, REST APIs, React Hooks, Vite, Maven, HTTP, Agile Development.
- **Certifications**: Microsoft Azure Fundamentals: AZ-900.

PROFESSIONAL EXPERIENCE

Luckie & Co
Developer   June 2025 - Present

- Redesigned and developed the Luckie 2.0 corporate website using **WordPress** (Elementor) **CMS**, streamlining workflows for the content management team and reducing content update time by 35%.
- Built responsive, interactive web features with JavaScript, HTML, CSS, and **PHP**, optimizing site performance and delivering a smooth experience for 20,000+ monthly users across devices.
- Built a custom **AI chatbot** for the landing page leveraging **HubSpot** APIs and **JavaScript**, automating 40% of initial client queries and improving lead capture efficiency.
- Developed a responsive **Squarespace** microsite for **Rivian** using custom HTML, CSS, and JavaScript, showcasing Rivian's $5B Georgia investment, job creation, and sustainability efforts, strengthening the brand's community presence & stakeholder engagement.

BilliMD
Software Developer   Feb 2025 – May 2025

- Engineered and launched 10+ dynamic marketing pages using **React**, **TypeScript** & **Tailwind CSS** for SaaS platform used for medical credentialing, improving session duration by 16% and enhancing content accessibility.
- Created and consumed backend APIs using **Axios**, with **RxJS** Observables on the frontend to manage reactive streams and dynamic UI updates, streamlining provider, FAQ sections and boosting SEO relevance.
- Enhanced front-end performance with **lazy loading**, **Redux** for global **state management**, and **Context API** for scoped states, alongside modular **code splitting**, cutting page load times by 44%.
- Built accessible, reusable UI components using **Material UI** and **Framer Motion**, reducing dev time by 28% while delivering a modern and WCAG-compliant user experience.
- Partnered with designers via **Figma** & **Storybook** to deliver pixel-perfect, responsive UIs, reducing QA cycles & improving cross-team handoff.
- Worked with asynchronous processing patterns leveraging **RabbitMQ** for of time-intensive tasks like provider verification & notification workflows, reducing delays in user-facing interactions.
- Deployed backend services on **Kubernetes** clusters to enable container orchestration, auto-scaling, and streamlined resource management across dev and staging environments.

Vanguard
Software Engineer   Oct 2022 - Aug 2023

- Developed & maintained 15+ scalable **microservices** using **Java** and **Spring Boot**, for a retirement readiness platform, serving over 1M+ users.
- Designed and implemented **RESTful APIs**, focusing on structured error handling, XML/JSON serialization, and pagination logic, improving API integration efficiency.
- Integrated **PostgreSQL** with microservices using **Spring Data JPA** and **Hibernate**, building efficient CRUD functionality and optimizing data access with custom queries and ORM-level performance tuning.
- Integrated **OAuth2.0** authorization across microservices, reducing unauthorized access attempts by ~30%.
- Migrated synchronous REST-based inter-service communication to **Kafka**-based event streaming, reducing service latency by 16% and significantly improving scalability and fault tolerance under peak load.
- Conducted comprehensive tests using **Junit** for unit-level testing and **Postman** for API-level testing, reducing production bugs by half.
- Collaborated on backend performance tuning using **JMeter** and **AppDynamics**, proactively identifying inefficiencies in service threads and memory usage to enhance throughput during peak load testing.
- Documented APIs using **OpenAPI/Swagger**, ensuring seamless integration and testing for internal consumer teams and reducing back-and-forth for documentation clarity.

- Led a team of 6 junior developers, mentoring them on Java best practices; accelerating onboarding and improving code quality across deliverables.

Vanguard
Associate Software Engineer - DevOps   Aug 2021 - Sep 2022
- Led the migration of backend microservices from PCF to **AWS ECS**, enhancing scalability & reducing infrastructure costs by transitioning to containerized, cloud-native architecture.
- Implemented **multi-region architecture** on AWS, ensuring high availability and seamless failover for critical microservices.
- Leveraged Amazon **Route 53** for intelligent traffic routing between regions, optimizing performance & reducing latency.
- Collaborated cross-functionally to deliver a secure document access service using **S3**, **Lambda**, **API Gateway**, & **IAM**, enabling time-restricted delivery of sensitive retirement plan data.
- Configured automated monitoring and alerting systems using **EC2 Auto-Scaling**, **Cloud Watch**, and **Cloud Formation**, reducing mean time to detect (MTTD) issues by 50%.
- Built and optimized robust CI/CD pipelines by integrating **Docker** to containerize applications and using **Atlassian suite** (Bitbucket, Bamboo, Jira) with **Git**, automating deployment processes and shortening release cycles from 5 weeks to 3 weeks.

Tech Mahindra
Full-Stack Software Engineer Intern   Mar 2021 - Jul 2021
- Developed 25+ **Angular**-based frontend components for employee self-service portal, streamlining workflows & reducing HR inquiries.
- Designed & optimized **SQL** queries for a MySQL database, improving report generation speed from minutes to seconds.
- Automated data extraction from internal compliance portals using **Python** and **Selenium** to track training completion status, streamlining email notification workflows and reducing manual verification efforts by ~70%.
- Identified and resolved critical production bugs in Angular components and backend scripts by analyzing logs in **Splunk**, improving platform stability and reducing downtime for end users.
- Collaborated with senior developers and product owners to analyze the project requirements and translate them into actionable user stories in an **Agile** environment, consistently delivering 90% of sprint commitments.

PROJECTS

Emaily: An AI-powered smart mailbox application that automatically classifies, summarizes, and prioritizes emails using the **Gemini LLM API**. Built with **Next.js**, **Prisma**, and **NextAuth**, it offers users a streamlined dashboard to quickly understand key messages and take action, enhancing productivity and reducing email overload.

Crave Express: A food delivery mobile application developed using **Flutter** - **Dart** (single codebase for android, ios & web), allowing users to order dishes from local restaurants. Integrated **Firebase** including authentication, cloud messaging, & Fire store for data storage. Incorporated real-time tracking of delivery using **Flutter Google Maps**.

LEADERSHIP & VOLUNTEERING

TRIO SSS: Mentored and assisted underrepresented students (first-generation, low-income, disabled) in STEM fields, providing academic support and organizing workshops on study skills and career preparation to enhance retention and graduation rates.

Girls Who Code at GSU: Led the team of 4 and worked towards women's safety project by participating in 2023 HACKHERS hackathon focused on women in tech.

EDUCATION

Georgia State University   Atlanta, Georgia
Master of Science, Computer Science [GPA: 4.21/4.3]   Aug 2023 - Dec 2025
- Relevant Coursework: Web Development, Mobile Application Development, Database Systems, NLP, LLM

Vignan's Foundation for Science, Technology & Research   Guntur, India
Bachelor of Technology (Honors), Computer Science and Engineering [GPA: 4.0/4.0]   Jul 2017 - May 2021
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Operating Systems, Computer Networks, Python Programming, Web Technologies, Artificial Intelligence (AI), Cloud Computing, Data Mining.