Keerthi Reddy Ellanki

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SUMMARY

Full-stack Software Engineer with 3+ years of experience designing and deploying scalable web applications and microservices for enterprise platforms serving 1M+ users. Expertise in React, Spring Boot, Java, JavaScript, Python and AWS cloud architecture. Proven ability to optimize application performance, lead technical initiatives, and collaborate across cross-functional teams to deliver high-impact solutions.

CORE COMPETENCIES

- **Programming Languages:** Java, Python, JavaScript, Typescript, SQL, HTML, CSS.
- **Frontend:** React, Angular, Redux, Context API, Material-UI, Framer Motion, Tailwind CSS, Vite.
- **Backend**: Spring Boot, Node.js, FastAPI, REST APIs, Microservices Architecture, Maven.
- **Cloud**: AWS (ECS, Route 53, CloudWatch, CloudFormation, EC2 Auto-Scaling, S3, API Gateway, Lambda, IAM), Azure DevOps.
- **DevOps & CI/CD:** Docker, Kubernetes, Git, CI/CD Pipelines, Atlassian Suite (Bitbucket, Bamboo, Jira).
- **Databases:** MySQL, PostgreSQL, Spring data JPA, Hibernate.
- **Testing & Monitoring:** Junit, Postman, JMeter, AppDynamics, Splunk.
- **Miscellaneous**: Server-Side Rendering, Service Oriented Architecture (SOA), Object Oriented Programming, Software Development Life Cycle (SDLC), Test-Driven Development (TDD), RabbitMQ, Kafka, React Hooks, HTTP, Agile Development, STS, VS Code, Figma, WordPress, MS Office.
- **Certifications**: Microsoft Azure Fundamentals: AZ-900.

PROFESSIONAL EXPERIENCE

Luckie & Co. | Developer   Jun 2025 - Present

- Automated client engagement with an **AI-powered chatbot** leveraging HubSpot APIs & JavaScript, handling 42% of initial queries and freeing up **25+ hours/week** of manual customer support time.
- Architected Luckie 2.0 corporate website on **WordPress** (Elementor) **CMS** with custom **React**, **JavaScript** and **PHP** components, streamlining workflows for content management team and cutting content update time by 23%.
- Engineered a gamified learning platform with **React**, **Python FastAPI**, **SQLAlchemy**, and MS**SQL Server**, featuring 30+ multi-domain quizzes with badge achievements and Slack integration, achieving 95% employee participation within 2 months.
- Published 50+ SEO-optimized recipe pages for **Spice World** in WordPress, implementing structured data markup, increasing organic search rankings and drove 18% growth in site traffic over 3 months.
- Designed **Rivian's EV Impact** platform on **Squarespace** with custom JavaScript and **Mapbox integration**, delivering an interactive charging station locator with advanced filtering and geolocation capabilities**.**

BilliMD | Software Developer   Mar 2025 – May 2025

- Built 10+ dynamic marketing pages with **React**, **TypeScript** & **Tailwind CSS** for a healthcare credentialing SaaS platform, increasing average session duration by 16% and enhancing content accessibility.
- Connected backend APIs via **Axios** with **RxJS Observables**, powering real-time updates across provider directories and FAQ sections.
- Accelerated front-end performance with **lazy loading**, **Redux** for global state management, and **Context API** for scoped states, alongside modular code splitting, slashing page load times by 44%.
- Composed a library of 10+ accessible UI components with **Material UI** and **Framer Motion**, trimming dev time by 28% while maintaining a modern and WCAG-compliant user experience.
- Architected asynchronous processing with **RabbitMQ** message queues for time-intensive tasks such as provider verification & notification workflows, eliminating delays in user-facing interactions.
- Partnered with designers via **Figma** & **Storybook** to deliver pixel-perfect, responsive UIs, reducing QA cycles & improving cross-team handoff.

Vanguard | Software Engineer   Oct 2022 – Aug 2023

- Developed & maintained 15+ scalable **microservices** in **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, enhancing API integration efficiency.
- Connected PostgreSQL with microservices via **Spring Data JPA** and **Hibernate**, building efficient CRUD functionality and refining data access with custom queries and ORM-level performance tuning.
- Enforced **OAuth2.0** authorization across microservices, preventing ~30% of unauthorized access attempts.
- Migrated synchronous REST-based inter-service communication to **Kafka**-based event streaming, cutting service latency by 16% and substantially enhancing scalability and fault tolerance under peak load.
- Conducted comprehensive tests with **Junit** for unit-level testing and **Postman** for API-level testing, dropping production bugs by half.
- Performed backend performance tuning with **Apache JMeter** and **AppDynamics**, identifying inefficiencies in service threads and memory usage to boost throughput during peak load testing.
- Documented APIs via **OpenAPI/Swagger**, ensuring seamless integration and testing for internal consumer teams.
- Led a team of 6 junior developers, mentoring Java best practices; accelerating onboarding & improving code quality across deliverables.

Vanguard | Associate Software Engineer - DevOps   Aug 2021 – Sep 2022

- Migrated 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, enhancing performance & reducing latency.
- Collaborated cross-functionally to deliver a secure document access service with **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%.
- 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, elevating 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 cutting down 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 minimizing downtime for end users.
- Collaborated with senior developers and product owners to analyze project requirements and translating into actionable user stories in an **Agile** environment, consistently delivering 90% of sprint commitments.

PROJECTS

Rescue Spot | Python FastAPI • React • Leaflet.js • OSMnx • GeoPandas • Firebase Authentication • Google Firestore
A geospatial optimization platform for emergency resource siting and coverage analysis using real-world GIS datasets. Features real-time map visualization, API-driven analytics, and intelligent decision support algorithms to optimize emergency response and resource allocation during natural disasters.

Luckie Jambles | React • Python FastAPI • SQLAlchemy • MSSQL Server • Microsoft Entra ID
An enterprise level learning platform with progressive quiz levels across web development, AI, marketing, and advertising. Features Microsoft Entra ID authentication for seamless SSO, automated badge system integrated with Slack API for social sharing, quiz randomization algorithms, persistent progress tracking, and real-time leaderboard rankings.

Emaily | Next.js • Prisma • Gemini LLM • NextAuth
An AI-powered email manager that automatically classifies, summarizes & prioritizes emails, with streamlined dashboard to reduce email overload.

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 maximize 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, Web Technologies, Artificial Intelligence (AI), Cloud Computing, Data Mining.