

Bala Venkata Naga Srinivasa Sumanth Konjeti

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🎓 Education

Indiana University Bloomington, Indiana, USA
Master of Science in Computer Science
3.73/4 GPA

08/2023 – present

🧠 Skills

Programming Languages and Databases
Java, Python, C, C++, HTML/CSS, JavaScript, TypeScript, Shell Scripting, MySQL, PostgreSQL, MongoDB, Couchbase.

Frameworks
Angular, Django, SpringBoot, MERN Stack, RESTful APIs, Flask, Apache Kafka, ELK.

Tools and Methodologies
Version control (GIT), CI/CD, AWS, Docker, kubernetes, Jenkins, Jira, Postman, Agile, SDLC.

Machine Learning
Machine learning, Transformers, BERT, GPT, LLMs.

🏢 Professional Experience

Full-Stack ML Engineer
MyEdMaster, LLC, Leesburg, VA 20176

06/2024 – present

- Currently working simultaneously on two projects: an Educational project and a Health project.
- **Developing AI-driven Adaptive Learning Content:** Crafting personalized Algebra 1 content with large language models (LLMs) and seamlessly embedding these resources within MyEdMaster's educational software to elevate individualized learning experiences.
- **Conducting Performance Analysis:** Analyzing performance by applying machine learning algorithms to refine LLM-generated content, aiming for a 20% improvement in student learning outcomes and a 15% reduction in content delivery time.
- **Implementing Unit Conversion Functionality for myHealth Project:** Expertly implemented custom input forms and unit conversions using React and Redux, with Django backend, enhancing user experience by 40%, reducing errors by 20%, and increasing accuracy by 25%.

Data Engineer
[24]7.ai, Bengaluru, India

11/2022 – 05/2023

- **Engineered real-time analytics system:** Harnessed Apache NiFi, Kafka, Spark, and Cassandra, enhancing data flow management, streaming, processing, and storage, resulting in improved decision-making for Asynchronous Messaging V3.
- **Spearheaded GCP migration:** Orchestrated end-to-end migration from local data center to GCP, overseeing setup, data transfer, and rigorous testing; achieved a 50% reduction in latency and improved system reliability by 35%.
- **Developed scalable data pipeline:** Created a 500TB weekly data pipeline with Kafka and Spark, showcasing large-scale data handling expertise.
- **Launched ELK stack:** Configured ELK stack for the GCP Assist application includes Synchronous V1 and Asynchronous Messaging V3, enhancing data integration and creating intuitive visualizations of data logs with Kibana.

Software Development Engineer - 1
[24]7.ai, Bengaluru, India

03/2021 – 11/2022

- **Architected asynchronous messaging modules:** Devised job modules for Asynchronous Messaging, improving efficiency by 30%.
- **Executed PSR runs:** Conducted weekly PSR runs on synchronous messaging V1 and asynchronous V3 platforms, performing short and longevity runs spanning four days, generating detailed observation reports for crucial development and issue fixes during the run.
- **Streamlined service delivery:** Collaborated with SRE and DevOps teams, reducing customer support issues by 40%.
- **Automated monitoring scripts:** Coordinated the initiative to design, deploy, automate comprehensive monitoring scripts, incorporating memory management strategies for key components, leading to a 20% reduction in system failures and a 15% improvement in overall system stability.

📁 Projects

InstaInsight - Integrated with Instagram
MERN Stack, React Redux, Next.js, MongoDB, Docker, AWS, Netlify, Instagram Graph API

05/2024 – present

- **Interactive Stories Integration:** Introduced user authentication with JWT, detailed profiles, interactive posts with likes/comments, and image-based stories visible for 24 hours with reactions and replies.
- **Platform Enhancements:** Integrating multimedia support and responsive design using Tailwind CSS, and utilizing Docker for AWS deployment, aiming for a 50% rise in user interaction and a 30% reduction in bounce rate.
- **Future Enhancements:** Plan to add search functionality, extend post features, and integrate real-time chat and advanced AI features using OpenAI.

Secure Banking System
Angular | Springboot | PostgreSQL | Spring Security

01/2024 – 04/2024

- **Modern Banking Features and Security:** Led the development of a full-stack banking application, prioritizing modern features and HTTPS for secure communication, enhancing security and user trust by 40%, and reducing unauthorized data access incidents by 60%.
- **Backend Security Implementations:** Designed and Installed backend APIs for security features including JWT tokens, role-based session management, and OTP authentication. Incorporated encryption and input validation to safeguard against cyber threats, decreasing cyber attack vectors by 45% and increasing application security by 40%.

ASVINS - Patient Insurance Management System
Agile, MERN Stack, Firebase, Custom APTs, Weavy API Github, Docker, Vercel app

09/2023 – 12/2023

- **Led Agile MERN stack development:** Drove Agile development of MERN stack applications, enhancing user experience with geolocation-based doctor search and real-time chats, achieving a 50% increase in user satisfaction and 25% faster response times.
- **Rolled out a new features:** Implemented doctor search, real-time chat, and COVID-19 updates, driving a 25% increase in user retention.
- **Integrated technologies:** Employed Firebase for authentication, custom APIs for functionalities, and Weavy API for enhanced communication.

Trajectory Data Clustering and Path Optimization
Python, DBSCAN, OPTICS, HDBSCAN, K-means, Tableau for visualizations

05/2023 – 07/2023

- **Optimized Clustering Models and Advanced Analytics in Logistics:** Refined DBSCAN, OPTICS, and HDBSCAN for trajectory data, improving route productivity, reducing delivery times by 25%. Leveraged Python to reduce path errors, informing strategic transport and logistics decisions.
- **Boosted marketing campaigns:** Created interactive Tableau visualizations, increasing ROI by 25%.