

LAKSHMI SATHEESH

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SUMMARY

Software Engineer with 2+ years of industry experience, adept at understanding business problems and building end to end innovative and efficient solutions. Solid grasp over fundamentals, skilled in agile methodology and effective in cross-functional collaboration.

EXPERIENCE

Nutrient - Full-Stack AI/ML Engineer - Raleigh, NC (remote) **January 2025 - Present**

- Integrated NLP models, including **BERT** for metadata analysis and **GPT** for text summarization, and **autoencoders** to identify duplicate content into a dashboard with real-time performance tracking using **D3.js**, improving data processing efficiency by 30%.

Frugal Innovative Hub - Software Engineer AI/ML - Santa Clara, CA **March 2024 - May 2024**

- Coordinated with a team to design a Flutter-based mobile app leveraging **Q-Learning Reinforcement Learning** agent for adaptive difficulty levels, providing personalized mathematics education to over 500 children from diverse cultural backgrounds.
- Engineered AI-powered **gamification features** with regression models, using **Random Forest** and **Gradient Boosting**, to predict user engagement and deliver motivational nudges, resulting in a 25% increase in retention and improved learning outcomes.

Forthcode Technologies - Software Engineer **August 2021 - December 2023**

- Developed real-time inventory, dashboard, and DSP scheduling for an airline catering product using **React**, **Node.js**, **Redux**, and **WebSockets**, boosting user satisfaction from 66% to 92%. Adopted by Air Asia, Philippines Air, and Akasa Air.
- Curated, built, and launched a global e-commerce platform with API-driven architecture using **Node.js**, **Express.js**, **MongoDB**, and **Elasticsearch**, tripling online orders for 600 thousand digital products and achieving 75% faster web load times.
- Optimized high-performance data retrieval by implementing **sharding** and **horizontal scaling** to efficiently manage **billions of records**, reducing query **latency** by 70%. Optimized **database indexing** and **query execution plans** for faster data access.
- Automated data updates and caching by setting up **Cron jobs** for daily data processing and using **Redis to cache** frequently accessed data, significantly improving retrieval speed and system efficiency by upto 80%.

Global Invisions - Software Engineer **August 2020 - July 2021**

- Formulated and executed a volunteer management system applying **Vue.js**, **Laravel**, and **MySQL**, streamlining monitoring and scheduling processes for 500+ volunteers annually in the UAE, focusing on optimized technical solutions and strategic architecture.

CrushIT - Web Developer Intern **January 2020 - April 2020**

- Developed responsive webpages with **HTML**, **CSS**, and **JavaScript**, boosting user interaction by 25%. Deployed features swiftly using agile methods, reducing deployment time by 30%, and created pages from Figma designs for launch.

PROJECTS

Sentiment Analyser | NLP, Python, AWS S3, React.js **November 2024**

- Created a sentiment analysis tool using Python, NLTK, and machine learning models like Naive Bayes and Logistic Regression, accurately classifying over 10,000 customer reviews into positive, negative, or neutral sentiments.

NutriGo Application | SVD, ARIMA, Flutter, Firebase, SQLite, Nearby messages API **April 2024**

- Developed a nutrition navigation app using Flutter, Firebase, SQLite, and Nearby Messages API, employing Matrix Factorization such as **SVD** for personalized nutrition tips and time-series forecasting (**ARIMA model**) for tracking features.

EDUCATION

MS in Engineering Management and Computer Science | Santa Clara University **December 2025**

BS in Computer Science and Engineering | Bangalore Institute of Technology **July 2019**

ACHIEVEMENTS

- Pitched the **NutriGo Application at SCU's Bronco Ventures**, promoting AI-driven nutrition solutions to industry experts.
- Recognized as a **Top Performer** for leading the successful delivery of a key Backend project among 100 employees.
- Member of Lime Connect since 2023**, advancing leadership and innovation in disability rebranding.

SKILLS

Python, JavaScript, C++, TypeScript, PHP, HTML, CSS, React.js, Vue.js, Node.js, Redux, Ajax, Next.js, Express.js, MySQL, MongoDB, PostgreSQL, Elasticsearch, BigQuery, Firebase, Google Cloud Platform (GCP), Git, CI/CD, Docker, AWS, Flask, Django, FastAPI, Kubernetes, Jenkins, LLM, SVD, RAG, NLP, Machine Learning.