

LAKSHMI SATHEESH

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EDUCATION

Master of Science, Engineering Management (elective: Computer Science)

Santa Clara University

December 2025

Bachelor of Engineering, Computer Science

GPA: 3.62

Bangalore Institute of Technology

June 2019

Courses: Machine Learning, Natural Language Processing, Data Structures & Algorithms, Design & Analysis of Algorithms, Internet of Things

SKILLS

PROGRAMMING: Python, PHP, C++

MOBILE APP DEVELOPMENT: React Native, Flutter

WEB DEVELOPMENT: JavaScript, jQuery, AJAX, Vue JS, React JS, Node JS, PHP Laravel, HTML, CSS, Bootstrap, UI/UX

DATABASES: MySQL, MongoDB, Elasticsearch, AWS Dynamo Db, SQLite, Firebase

DEVOPS: Kubernetes, Docker, Git

CERTIFICATES: Google UX Design Professional Certificate, MERN Stack Bootcamp

EXPERIENCE

Application Developer, SCU Frugal Innovation Hub

March 2024 - Present

- Collaborated with a team to design a Flutter-based mobile app supporting over 500 children from diverse cultural backgrounds in understanding mathematics, implementing adaptive difficulty levels using decision tree algorithms for personalized learning experiences.
- Coordinated with cross-functional teams, including educators and designers, to align app features with educational goals, reducing user drop-off rates by 25% and elevating overall app effectiveness.

Software Engineer, Forthcode Technologies

August 2021 - December 2023

- Designed and developed key features such as real-time inventory management, data analytical dashboard & DSP scheduling component for an airline catering management product incorporated by Air Asia, Philippines Air, & Akasa Air, increasing user satisfaction from 66% to 92%.
- Led a team of 3 engineers to implement features in React, resulting in a 30% increase in user engagement and a 40% decrease in bug reports.
- Curated, built, and launched a global e-commerce platform with API-driven architecture, tripling online orders for 10 lakh digital products and achieving 75% faster web load times with MongoDB and Elasticsearch.
- Transitioned 80% of website pages from Blade to Vue.js components, improving maintainability. Explored Go Language & Django, and documented processes for comprehensive understanding.

Software Developer, Global Invisions Consulting LLP

August 2020 - July 2021

- Formulated and executed a volunteer management system applying Vue.js, Laravel, & MySQL, streamlining monitoring and scheduling processes for 500+ volunteers annually in the UAE, focusing on optimized technical solutions and strategic architecture.
- Constructed efficient web applications with Vue.js, resulting in a 25% scale down in codebase size and optimized user interfaces for a 200% improvement in UX performance, revamping page load time and user engagement.
- Assembled a MySQL database with 25+ tables and 500+ fields to manage customers and order tracking data.

Web Developer Intern, CrushIT

January 2020 - April 2020

- Developed engaging and responsive webpages integrating HTML, CSS, and JavaScript, increasing user interaction by 25%. Swiftly deployed new features using agile methods, lowering deployment time by 30%, and devised 10+ additional pages based on Figma templates for launch.

PROJECTS

NutriGo Flutter App (Flutter, Firebase, SQLite, Python, Nearby messages API)

- Created a Flutter App for Nutrition navigation for students as part of an academic project. Facilitated the formation of local groups focused on fitness and nutrition deploying Google's Nearby Messages API, enhancing community interaction by 25%.
- Protected sensitive user information by AES-256 encryption on contact details and nutrition data stored locally in SQLite. Stored user login and profile information securely in Firebase.
- Included additional features such as filters, customizations, tips to a nutritional healthy body and mind, recording of nutritional intake employing graphical form, leading to a 30% increase in user engagement with tracking features.

Smart Hot Water Recirculating System (IoT, Raspberry Pi, Machine Learning, Sensors, AWS)

- Built an IoT security system allowing future detection of hot water adopting Raspberry Pi & MPU6050 Accelerometer. ARIMA model and AWS are used to analyze and store sensor data amplifying detection accuracy by 40%.
- Secured system utilizing middleware for internal threats and WPA2 Encryption for wireless communication.

Sentiment Analyzer (Natural Language Processing, Python)

- Devised a sentiment analysis tool to classify customer reviews into positive, negative, or neutral sentiments on over 10,000 customer reviews.
- Utilized Python and NLTK library to accomplish sentiment analysis algorithms which minimized processing time by 20% and trained machine learning models such as Naive Bayes on labeled datasets of customer reviews to accurately classify sentiment.

VOLUNTEER

Lime Connect: Rebranding Disability (*member January 2023-present*)