LAKSHMI SATHEESH

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EDUCATION

Masters of Science, Engineering Management (core: Computer Science) — *Jan 2024 - Dec 2025*
Santa Clara University — **GPA: 3.62**
Bachelor of Engineering, Computer Science — *Aug 2015 - Jun 2019*
Bangalore Institute of Technology — **GPA: 3.01**
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 Bootscamp

EXPERIENCE

Application Developer, SCU Frugal Innovation Hub — *Mar 2024 - Present*
- The project aims to support children with diverse cultural backgrounds in understanding mathematics. Collaborated with developers to design a mobile application using Flutter & Dart and implement difficulty levels using machine learning algorithms such as decision tree.
- Tech Stack: Flutter, Dart, MySql, Python

Software Engineer, Forthcode Technologies — *Aug 2021 - Dec 2023*
- Designed and developed features for an airline catering management product used by Air Asia, Philippines Air, and Akasa Air, successfully increasing user satisfaction from 66% to 92%.
- Led a team of three junior engineers to implement new features in React, resulting in a 30% increase in user engagement and a 40% decrease in bug reports.
- Designed, 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.
- Improved website maintainability with Vue.js components for 80% of pages, explored Go Language and Django, and meticulously documented processes for comprehensive understanding.
- Tech Stack: Javascript, ReactJS, NodeJS, GoLang, Django, MongoDb, MySql, ElasticSearch, Docker

Software Developer, Global Invisions Consulting LLP — *Aug 2020 - Jul 2021*
- Designed and implemented a volunteer management system using Vue.js, Laravel, and MySQL, streamlining tracking and scheduling processes for 500+ volunteers annually in the UAE, focusing on optimized technical solutions and strategic architecture.
- Developed efficient web applications with Vue.js, resulting in a 25% reduction in codebase size and optimized user interfaces for a 200% improvement in UX performance, enhancing page load time and user engagement.
- Constructed a MySQL database with 25+ tables and 500+ fields to manage customers and order tracking data.
- Tech Stack: Javascript, VueJS, PHP, Laravel, MySql

PROJECTS

NutriGo Flutter App (Flutter, Firebase, SQLite, Python, Nearby messages API)
- Created a Flutter App for Nutrition tracking for students as part of an academic project. Used Google's nearby message API to facilitate the formation of local groups focused on fitness and nutrition.
- Stored user's sensitive information such as their contact with other people, nutrition in an encrypted format on the phone's local SQLite database, information such as user's login details, profile details, etc were stored in the firebase database.
- Included additional features such as filters, customizations, tips to a nutritional healthy body and mind, tracking of nutritional intake using graphical form.

Smart Hot Water Recirculating System (IoT, Raspberry Pi, Machine Learning, Sensors, AWS)
- Created an IoT security system that allows future detection of hot water using RaspberryPi & MPU6050 Accelerometer. ARIMA model and AWS are used to analyze and store the sensor data.
- Secured the system using middleware for internal threats and WPA2 Encryption for wireless communication.

Sentiment Analyzer (Natural Language Processing, Python)
- Developed a sentiment analysis tool to classify customer reviews into positive, negative, or neutral sentiments.
- Utilized Python and NLTK library to implement sentiment analysis algorithms.
- Trained machine learning models such as Naive Bayes on labeled datasets of customer reviews to accurately classify sentiment.

VOLUNTEER

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