Varsha Chikkamagaluru Lakshmikanth

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Experienced Full Stack Developer

EDUCATION

University of Illinois Urbana-Champaign   Urbana, United States
Master of Computer Science   January 2024 – May 2025
Courses: Advanced Data Management, Applied ML, Cloud Computing Applications
Activities: Research Assistant at NCSA, Course Assistant for Software Design Lab

R.V College of Engineering   Bengaluru, India
Bachelor of Engineering - Computer Science; CGPA: 9.24;   August 2016 – August 2020

TECHNICAL SKILLS

Languages	Javascript, Java, Typescipt, Python, C#, SQL, Groovy
Technologies	Express, React, NextJS, NestJS, Angular, Spring Boot, .Net, AWS, Azure, Kubernetes, Docker
ORM	Sequelize, TypeORM, Hibernate ORM, Entity Framework
Certifications	Microsoft Certified: Azure Fundamentals, Certified Kubernetes Application Developer

EXPERIENCE

American Express Global Business Travel   Chicago, United States
Software Intern   May 2024 - August 2024

- Developed a comprehensive end-to-end framework for data validation, and alerting using **Snowflake** and **Datadog**, enhancing data quality within Egencia's data engineering platforms

McKinsey & Company   Bengaluru, India
Engineer II   November 2022 - January 2024

- **Senior Backend developer for a US Energy client**

  - Led the development of **Python Engine** using **Pandas** to digitize the energy forecasting process and integrated the engine with **Azure Queue Storage** to facilitate the communication with frontend
  - Deployed the engine using **Azure App Service** and dynamically scaled out the instances based on the request load

- **Senior Backend developer for a US Pharma client**

  - Engineered **Express microservices** to efficiently process and visualize 10,000+ rows of healthcare data, aiding in selecting the appropriate medications
  - Integrated backend microservices with **AWS S3**, facilitating seamless access to data engineering pipeline output, improving data accessibility, and enhancing overall system efficiency
  - Implemented the integration of backend microservices with the client's **Active Directory** system to enable seamless **authentication** and **authorization** processes

- Led **code-pairing interviews** for both 2023 interns and lateral hire positions, assessing over 25+ candidates.

- Managed and directed a team of 8 interns in the development of an intranet portal by defining the project scope, conducting daily standup meetings, and ensuring strict adherence to standard coding practices

McKinsey & Company   Bengaluru, India
Engineer I   November 2021 - October 2022

- **Backend developer for a Pool Application at US water based client**

  - Built 6 secure, scalable microservices in **.Net**, empowering 100+ pool owners with real-time maintenance tracking, live expert video calls via a mobile and web app.

- Integrated backend systems seamlessly with a range of 3rd-party platforms, including **SightCall**, **SendGrid**, **Twilio**, and Azure Services like **Storage Account**, **Redis**, and **Azure Service Bus**
- Designed an **Azure pipeline** for deploying the shared library to a private NuGet feed
- Led sessions for over **10+ interns** at Tech University 2022, focusing on holistic **backend development**, including database management, Sequelize ORM, and unit testing

McKinsey & Company   Bengaluru, India
Junior Engineer   July 2020 - October 2021

- **Backend Developer for a Food Delivery Application at a US Healthcare Client**
  - Developed a suite of 11 microservices using **Spring Boot and Groovy** to manage and track orders for chronically ill customers on a subscription basis
  - Created multiple **batch jobs using Spring Batch** to send asynchronous notifications via Email using **Amazon Simple Email Service** and SMS using **Twilio** to over 1000 users about the order status
- **Fullstack Developer for a VIP Ecommerce Solution at a US Ecommerce Client**
  - Built a responsive ecommerce website using **NextJS** and **Tailwind CSS** and a highly secure, extensible backend using **NestJS** and **GraphQL**
  - Implemented a **GCP cloud function** that efficiently decoupled the asynchronous loading of over 1000's products from the client's enterprise system to **Strapi CMS**, streamlining data management and reducing data transfer times significantly
  - Researched and applied **ADA compliance** guidelines using tools like **WAVE**, **axe Accessibility Testing**, a **color contrast analyzer**, etc., resulting in a 15% increase in application accessibility
- **Frontend Developer for an internal banking asset**
  - Developed a web application using **React**, which facilitates technical and governance teams to maintain a tracker of datalakes associated with banks
  - Enhanced **code quality** by resolving **SonarQube** issues and actively contributing to PR reviews

McKinsey & Company   Bengaluru, India
Software Intern   January 2020 - June 2020

- **Frontend Developer for an energy forecasting application at US energy client**
  - Developed a web application using **Angular** to run energy forecasts and visualize data through charts, significantly reducing forecasting time from several months to just 10 minutes
  - Implemented end-to-end **automation test cases** for energy forecasts utilizing the **Protractor framework**, ensuring robust testing coverage and saved significant time in testing
- Developed an intuitive platform for modeling cloud architecture with terraforms, and streamlining the deployment to AWS, and Azure resulting in a 40% reduction in deployment time and improved scalability

AirAsia Tech   Bengaluru, India
Software Intern   June 2019 - July 2019

- Developed a map-based interactive flight search feature using **JavaScript** and seamlessly integrated it with **Google Maps**, enhancing user experience and enabling them to visualize AirAsia's connectivity

ACADEMIC PROJECTS

- Kafka ML Balancer: Developed an intelligent load balancing system for Apache Kafka clusters, leveraging ML models to dynamically allocate partitions to brokers based on real-time workload patterns and metrics.
- QR Attendance Monitoring System: A android application which can be used by students to scan the QR code present on the ID card to mark their attendance
- Image Caption Generator: Automatically describes the content of an image using InceptionV4 and LSTM

ACHIEVEMENTS / EXTRACURRICULAR ACTIVITIES

- Runner-up in a Build Asia hackathon competition held in McKinsey
- Runner-up in "New Bengaluru for New India College" Ideathon Competition
- Active technical member of Ashwa Racing club in R.V College of Engineering