

# Varsha C Lakshmikanth

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Experienced Full Stack Developer and CS Graduate Student at UIUC

## EDUCATION

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**University of Illinois Urbana-Champaign**

Urbana, United States

*Master of Computer Science*

*January 2024 – May 2025*

**R.V College of Engineering**

Bengaluru, India

*Bachelor of Engineering - Computer Science; CGPA: 9.24;*

*August 2016 – August 2020*

## TECHNICAL SKILLS

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**Languages** Javascript, Java, Typescript, 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

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**McKinsey & Company**

Bengaluru, India

*Engineer II*

*November 2022 - Jan 2024*

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

- Developed a **Python Engine** using **Pandas** to digitize the energy forecasting process
- 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, and contributed to the successful recruitment of highly skilled professionals for the respective roles

- 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

Junior Engineer

Bengaluru, India

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, resulting in a 30% increase in order processing efficiency
  - 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, to inform the customers 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**
  - Built a highly secure, extensible backend using **NestJS**, seamlessly integrating with the client's systems, and adding a performant **GraphQL** layer resulted in a 20% reduction in response times and improved system reliability
  - 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 and user satisfaction
- **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

Software Intern

Bengaluru, India

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 contributing to significant time savings in the testing process
- 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

Software Intern

Bengaluru, India

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

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- "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

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- 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
- Secured 623 rank out of 178000 students in Common entrance exam of Karnataka