


# Varsha C Lakshmikanth

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Incoming Graduate Student at UIUC, Spring 2024

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## EDUCATION

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### University of Illinois Urbana-Champaign

*Master of Computer Science*

Urbana, United States

*January 2024 – May 2025*

### R.V College of Engineering

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

Bengaluru, India

*August 2016 – August 2020*

## TECHNICAL SKILLS

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<b>Languages</b>	Java, Groovy, Javascript, Typescript, Python, C#, SQL
<b>Web Development</b>	Spring Boot, .Net, Angular, NextJS, NestJS, Express
<b>Database</b>	Sequelize, TypeORM, Entity Framework
<b>Certifications</b>	Microsoft Certified: Azure Fundamentals, Certified Kubernetes Application Developer
<b>Other</b>	React, AWS, Azure, Kubernetes, Docker, GIT

## EXPERIENCE

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### McKinsey & Company

*Engineer II*

Bengaluru, India

*November 2022 - Present*

- **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

*Engineer I*

Bengaluru, India

*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 efficiently 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
- **Backend Developer for a VIP Ecommerce Solution at a US Ecommerce Client**
  - 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 vulnerabilities and **SonarQube** issues, actively contributing to PR reviews, and producing comprehensive documentation

## 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
- Designed and engineered an intuitive platform for modeling cloud architecture with terraforms, and streamlining the deployment to AWS, Azure, and GCP, resulting in a 40% reduction in deployment time and improved scalability

## AirAsia Tech

Software Intern

Bengaluru, India

June 2019 - July 2019

- Designed and 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