

# Manikantan Eakiri Lakshmanan

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## PROFESSIONAL SUMMARY

Final semester MS Software Engineering student, expected graduation May 2025. Skilled in software development, including web and iOS platforms, with a focus on usability, performance, accessibility, and scalable system design. Proficient in database design and implementation. Experienced in collaborative projects and solving complex problems through technical expertise. I am currently working on a capstone project this semester. Seeking **internship opportunities for Summer 2025 and Full-time roles** related to **Software Engineering**

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## EDUCATION

### Rochester Institute of Technology

Master of Science (MS): Software Engineering

Associate in Applied Science (AAS): Applied Computer Technology

Expected May 2025

May 2024

### Kalasalingam University

Bachelor of Technology (B.Tech): Computer Science and Engineering

May 2019

## SKILLS AND ABILITIES

- Hardware:**
- Experienced in diagnosing, repairing, and upgrading laptops and mini desktop PCs.
  - Proficient in building and customizing computer systems with components such as SSDs, RAM, graphics cards, and power supplies.
  - Skilled in troubleshooting and repairing printers and other peripherals to ensure optimal functionality.

### Software:

- **Programming Languages:** Swift, Python, Java, JavaScript, PHP, Ruby, HTML5, CSS3, MySQL, JavaFX, C, C#, Terminal (Windows, macOS, Linux)
  - **Frameworks and Libraries:** SwiftUI, Node.js, React, Express.js, TensorFlow.js, RESTful APIs
  - **Software Testing Tools:** Jest, Cypress
  - **Platform cloud:** Azure, Google cloud
  - **Development Tools:** IntelliJ IDEA, Visual Studio Code, Xcode, GitHub, Microsoft Office Suite.
  - **Operating Systems:** Windows (XP, 7, 8, 10, 11), macOS, Linux, iOS, Android
  - **Data Tools:** Google BigQuery, Data Looker
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## RELATED COURSEWORK

Windows Operating Systems, Introduction to Linux, Website Development, Software Development and Problem Solving, Collaborative Software Development, Programming Fundamentals : Mobile Domain, Software Construction, Software Quality, Model-Driven Development, Foundations of Software Engineering, Foundations of Human-Computer Interaction, Foundations of Website Technologies I and II, Software Architecture, Database Design Implementation.

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## CAPSTONE PROJECT

### ASL-to-Text Dictionary Using Real-Time Sign Language Detection

January 2025 – May 2025

- Developed an advanced gesture recognition system to improve accessibility and interaction for diverse users, including the Deaf community.
  - Utilized **Python** as the primary programming language and integrated libraries like **TensorFlow.js**, **NumPy**, and **Mediapipe for machine learning** and real-time computer vision tasks.
  - Designed a responsive **HTML/CSS**-based front-end with proper server integration to provide real-time gesture detection and feedback via webcams.
  - Ensured smooth gesture visualization by refining data pipelines and optimizing model performance for realworld use cases.
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## PROJECTS

### Author Sell Book Website

- Designed and developed a promotional website **using HTML, advanced CSS, and JavaScript**. • Focused on responsive design and user-friendly interfaces to enhance visitor engagement.

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**Technological Car Websi**Built a feature-rich website **using HTML, advanced CSS, and JavaScript.**

- Implemented interactive elements to provide an engaging user experience

## **Secure Session Management (Including Testing)**

- Developed a secure book-listing website **using Java, JavaScript, HTML, CSS, and JSON.**
- Employed Gradle for server management and conducted architecture evaluations using ATAM and software product line frameworks.
- Performed comprehensive testing using Cypress to ensure functionality and security.

## **MyPlus Learning System**

- Designed and implemented a web-based education system using **Java, Spark framework**, a templating engine, and MySQL.
- Conducted rigorous testing within a **Scrum team** to ensure system reliability and usability.

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## **WORK EXPERIENCES**

### **Laptop Testing**

**Maven Technologies, Rochester, NY 05/2024**

– current

- Tested various laptop brands, including Dell, Lenovo, and HP, sourced from organizations such as companies, schools, and hospitals.
- Wiped SSDs via BIOS, ensuring compatibility based on the specific laptop model.
- Replaced HDDs and RAM to resolve missing components or hardware issues.
- Removed ownership and asset tags from Dell laptops using terminal commands.
- Verified functionality of touchpads, touch screens, SSDs, and HDDs using Parted Magic OS from a USB drive.
- Documented identified issues in condition reports and submitted them to eBay for customer review through Maven Technologies.

### **iOS App Developer**

**National Technical Institute for the Deaf (NTID), Rochester, NY**

**06/2023 – 05/2024**

- Developed an iOS application designed to educate users about chemical elements.
- Integrated multimedia content, including American Sign Language (ASL) videos, English text, images, and additional video resources.
- Designed and implemented the application **using the SwiftUI programming language.** • Conducted comprehensive testing to identify and resolve technical issues efficiently.

### **Data Analyst Intern**

**Accenture ,Bangalore, India 02/2020**

– 08/2020

- Acquired proficiency in tracker data reporting for the data analytics team, which involved documenting the progress and time allocation of Accenture resources across various training activities, including online courses.
- Employ the VLOOKUP function and formulas **in Microsoft Excel** to generate the final report.
- This report is utilized by the data analytics team and senior management to monitor the advancement of learning and the expenses associated with training.
- Consolidated 2-3 reports to create a financial report that highlights the profitability of the Accenture contract in the ASIA region.
- Employed diverse formulas and pivot tables to generate charts that illustrate profitability and trends.

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## **AWARDS & Certifications**

**Rochester Institute of Technology - DEAN'S LIST** 04/2022 - 05/2024

**National Technical Institute for the Deaf (NTID) - SaSaKawa-DeCaro Scholarship** 08/2022 - 05/2024

**Rochester Institute of Technology - Epsilon Pi Tau** 04/2024

**Rochester Institute of Technology – Software Engineering Grad Scholarship -**

**Cisco Networking Academy** – Introduction to Packet Tracer (2023)

**NPTEL Online** – Introduction to Programming Using Python (2018**NPTEL Online** – Associate in Software Testing (2017)