# Manikantan Eakiri Lakshmanan

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## WORK EXPERIENCE

**Alphabet Inc**                                                                                        **NY, USA**

*Full Stack Web Development*                                                        *May 2024 - Present*

- Engineered a scalable web application using React.js, Node.js, and Express.js, enhancing performance by 35%.
- Developed and optimized RESTful APIs, improving data retrieval speed by 40%.
- Implemented CI/CD pipelines with Docker and Jenkins, reducing deployment time by 50%.
- Enhanced UI/UX with Tailwind CSS and React Hooks, leading to a 25% increase in user engagement.
- Integrated Google Cloud Functions, automating backend processes and cutting manual intervention by 30%.
-  Implemented CI/CD pipelines with Docker, Kubernetes, and Jenkins, reducing deployment failures by 50%.
- Designed unit and integration tests with Jest and Cypress, enhancing test coverage by 60% and reducing post-deployment issues.
- Led a cross-functional team of designers and developers, ensuring seamless UI/UX with React Hooks and Tailwind CSS, increasing user engagement by 25%.

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

*iOS App Developer*                                                                 *Jun 2023 - May 2024*

- Developed an iOS accessibility-focused app using Swift and SwiftUI, improving app efficiency by 45%.
- Implemented machine learning-based speech recognition, increasing accessibility for hearing-impaired users by 30%.
- Optimized app performance, reducing CPU and memory usage by 40% with Swift best practices.
- Collaborated with UI/UX teams to improve app navigation, leading to 20% faster user task completion rates.
- Integrated Firebase authentication and real-time database, enhancing security and performance by 35%.
- Implemented machine learning-based speech recognition, reducing transcription errors by 25% and improving app usability.
- Optimized app performance by 40% using memory-efficient Swift techniques and reducing CPU overhead.
- Integrated Firebase authentication and real-time database, improving data security and response time by 35%.

*Student Research and Media Content Assistant*                                *Jan 2023 - May 2023*

- Designed and developed interactive media tools for research analysis, reducing manual workload by 25%.
- Assisted in web-based content creation, optimizing engagement rates by 30% through data-driven enhancements.
- Developed automation scripts using Python, reducing repetitive research data entry time by 40%.

**IBM Corporation**                                                                                        **India**

*Full Stack Web Development*                                                        *Feb 2020 - Aug 2020*

- Built and deployed a microservices-based web platform using Spring Boot and React.js, improving scalability by 50%.
- Enhanced database queries using SQL indexing and MongoDB optimizations, reducing query time by 40%.
- Automated testing using Jest and Cypress, increasing bug detection efficiency by 30%.
- Integrated OAuth 2.0 authentication, improving security and reducing unauthorized access by 20%.
- Developed a scalable microservices architecture using Spring Boot, improving system modularity and maintainability by 50%.
- Worked in Agile development teams, collaborating with cross-functional teams to deliver software updates two weeks ahead of schedule.
- Automated testing with Jest and Cypress, increasing bug detection efficiency by 30% and reducing post-production issues.

## EDUCATION

**Rochester Institute of Technology**                                                              **USA**

*Master of Science (MS): Software Engineering*                        *Graduation Date: May 2025*

*Associate in Applied Science (AAS): Applied Computer Technology*      *Graduation Date: May 2024*

**Kalasalingam University**                                                                              **India**

**SKILLS & INTERESTS**

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|---|---|
| **Programming Languages** | Python, Java, JavaScript, Swift, PHP, Ruby, C, C#, C++, HTML5, CSS3, SQL, TypeScript |
| **Frameworks & Libraries** | React.js, Node.js, Express.js, SwiftUI, Spring Boot, TensorFlow.js, Redux, Bootstrap, Tailwind CSS |
| **Databases** | MySQL, PostgreSQL, MongoDB, Firebase, Google BigQuery |
| **Cloud & DevOps** | AWS (EC2, S3, Lambda), Google Cloud (Cloud Functions, Firestore), Azure, Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions) |
| **Software Testing** | Jest, Cypress, Selenium, JUnit, Postman (API Testing) |
| **Version Control & Collaboration** | Git, GitHub, GitLab, Bitbucket, Agile (Scrum, Kanban), Jira, Confluence |
| **Mobile App Development** | Swift (iOS), React Native, Firebase Authentication, API Integration |
| **Operating Systems** | Windows (XP, 7, 8, 10, 11), macOS, Linux, iOS, Android |
| **Data Tools & Analytics** | Google Looker, Power BI, Tableau, Pandas, NumPy |
| **Development Tools** | IntelliJ IDEA, Visual Studio Code, Xcode, Postman, Microsoft Office Suite |