

MALINI JANAKI SANKARAN

Boston, MA | (857)-869-9472 | janakisankaran.m@northeastern.edu | [LinkedIn](#) | [GitHub](#)

Education

Northeastern University, Boston, MA

Expected May 2025

Masters of Science in Information Systems

Courses: Application Engineering and Development, Data Management and Database Design, Web Design and User Experience, Data Science Engineering Methods and Tools, Program Structures and Algorithms

Sree Chitra Thirunal College of Engineering, Thiruvananthapuram, IN

Aug 2019

Bachelor of Technology in Computer Science and Engineering

Technical Skills

Programming Languages: C, C++, Java, C#, Python, JavaScript, TypeScript

Web and Server Technologies: HTML, CSS, SCSS, React, Node.js

Database: Oracle, MySQL, MongoDB

Software tools and IDEs: Unity, Cocos Creator, GeoGebra, VS Code, Apache NetBeans, Android Studio, Postman, Bruno

Work Experience

TATA ELXSI LTD, Bangalore, IN

May 2021– Apr 2023

Senior Engineer

- Led the Grade Team on the client side, overseeing an 8-member team and facilitating knowledge training sessions
- Engineered an AR application in Unity, facilitating product interaction in a 3D virtual environment, enhancing user experience by 20%
- Designed immersive virtual retail spaces and vehicle components for the automotive industry, providing an engaging online showroom experience for a web based metaverse application and increasing customer engagement by 40%

Engineer (Application Developer)

Nov 2019 – Apr 2021

- Led creation of interactive math applets in Cocos using TypeScript, enhancing engagement by 40%, while navigating production challenges and stakeholder interactions within deadlines to ensure smooth requirements gathering, design, and development workflows
- Collaborated with multiple teams in Curriculum, Design, and Quality Assurance to integrate engaging educational content, resulting in a 30% increase in customer satisfaction and a 15% rise in course completion rates

Academic Projects

IncluWork Job Portal Platform | MongoDB, Express.js, React.js, Node.js, TypeScript, Redux, JWT

Apr 2024

- Developed using the MERN stack with Redux for state management, featuring CRUD operations, routing, and internationalization to address UN global issues by connecting differently abled job seekers with employers, promoting inclusivity and diversity
- Implemented secure user authentication with JWT tokens, admin verification for compliance, created RESTful APIs using Domain Driven Design, enhanced functionality as a PWA, and tested all API endpoints using Bruno for reliability and performance

HealthCare Integration Java Application/ Netbeans IDE(Java)

Dec 2023

- Built a Java application EcoConnect for smooth collaboration among healthcare entities, optimizing workflows and work queues for enhanced efficiency and integrated functionality
- Engineered the EcoConnect System to effectively oversee organizations such as hospitals, labs, emergency units, pharmacies and insurance companies with tailored roles, streamlining healthcare processes
- Enhanced patient experience by enabling real-time access to lab reports, appointment bookings, medication ordering, and insurance plan management, fostering seamless healthcare interactions

Smart Inventory Management System | Oracle SQL Developer, SQL modeler, SQL

Dec 2023

- Created a Smart Inventory Management System, automating restocking and flexible pricing to enhance efficiency and customer satisfaction while providing real-time addition of categories and products for seamless stock monitoring and accuracy
- Executed role-based access control for Admin, App Manager, Customers, and Suppliers to ensure secure and regulated system access
- Formulated comprehensive reporting features including Supplier Comparison, Stock, and Sales reports, facilitating data-driven decision-making for optimized inventory management

Remote Healthcare Monitoring System | Python IDE (Raspberry PI), Android Studio, PHP Web Services, MySQL

May 2019

- Devised and incorporated a remote healthcare system using IOT for elderly and bedridden patients, enhancing hardware-software skills by implementing decision tree algorithms in Scikit-learn for health status classification
- Proficiency in Python programming, app design, and data analysis through machine learning