

# NEHA THOMAS

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## EDUCATION

### University of Southern California

Master of Science, Computer Science

Aug 2025 - May 2027

Los Angeles, CA

### Rajagiri School of Engineering & Technology

Bachelor of Technology, Information Technology

Nov. 2021 - May 2025

Kerala, India

GPA: 9.47/10

## SKILLS

Programming: Python, R, C, Java, JavaScript, HTML/CSS  
Web frameworks: React, Node, Express, Flask, RESTful APIs, Figma, React Native, UI, UX  
Database: MongoDB, MySQL, PostgreSQL, SQLite, Tableau, Pandas, NumPy, NoSQL  
AI & ML: Deep Learning, TensorFlow, Keras, PyTorch, Neural Networks, Scikit, XAI  
Relevant Courses: Database Management, Operating Systems, Web Application Development, Data Analytics, Artificial Intelligence, Cryptography and Network Security, Computer Vision, Internet of Things, Soft Computing

## WORK EXPERIENCE

### NeST Digital

Oct. 2023 - Oct. 2023

Internship Trainee

Kerala, India

- Wrote and debugged Python scripts for 3 development tasks involving file handling and user input.
- Applied modular code structure and improved code clarity based on team reviews.
- Presented a group project as part of a 6-person team; received top 3 evaluation score out of 15 intern teams for code accuracy and structure.

## PROJECTS AND PUBLICATIONS

### MALDROID – Android Malware Detection System

Sept. 2024-May 2025

*Technologies: Android, HTML, CSS, JavaScript, Python, TensorFlow, XAI*

- Trained malware classifier on 5,000 APK files; achieved 91.2% test accuracy.
- Created LIME-based visualization to show what code segments triggered malware classification.
- Frontend allowed users to upload and scan APKs; tested with 120 samples in demo.
- Project paper accepted at ACCTHPA 2025 Conference.

### SPACEUP – Real-Time Parking Management System

Jan. 2024 - May 2024

*Technologies: MongoDB, Express, React, Node.js, HTML, CSS, JavaScript (MERN Stack)*

- Built a web app to track 30+ campus parking slots using MongoDB and React.
- Added authentication for 2 roles (admin, user) and live status updates using polling at 5-second intervals.
- Reduced test conflict cases from 18 to 3 per day during simulated usage.

### SUPPLY MANAGEMENT – Queueing-Based Parcel Packing Optimizer

Jan. 2025 - May 2025

*Technologies: Python, Flask, HTML, CSS, JavaScript*

- Simulated 4 queueing strategies for parcel packing using real-time data from CSV files.
- Output showed a 28–32% increase in throughput compared to baseline FIFO model.
- Dashboard visualized queue lengths and idle time.
- Tested across 5 different warehouse sizes (20 to 100 workers) with configurable input rates.

## CERTIFICATIONS

- NPTEL Certifications: Python for Data Science, Cloud Computing, Computer Networks and Internet Protocol