

NEHA THOMAS

Los Angeles | (425) 504-2934 | nehathom@usc.edu | [linkedin.com/in/nehathom](https://www.linkedin.com/in/nehathom) | github.com/nehathom | nehathom.github.io/portfolio

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 GPA: 9.47/10	Nov. 2021 - May 2025 Kerala, India

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 Internship Trainee	Oct. 2023 - Oct. 2023 Kerala, India
<ul style="list-style-type: none">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 <i>Technologies: Android, HTML, CSS, JavaScript, Python, TensorFlow, XAI</i>	Sept. 2024-May 2025
<ul style="list-style-type: none">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 <i>Technologies: MongoDB, Express, React, Node.js, HTML, CSS, JavaScript (MERN Stack)</i>	Jan. 2024 - May 2024
<ul style="list-style-type: none">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 <i>Technologies: Python, Flask, HTML, CSS, JavaScript</i>	Jan. 2025 - May 2025
<ul style="list-style-type: none">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