Linu Anil Teresa

(443)-800-6928 | lteresa@umd.edu | www.linkedin.com/in/linuteresa | github.com/linuteresa

EDUCATION

University of Maryland — College Park, MD
Master of Science, Data Science — *Sept. 2025 – Expected May 2027*
Selected Coursework (Fall 2025): Probability & Statistics, Principles of Machine learning, Principles of Data Science.

Saintgits College of Engineering — Kerala, India
Bachelor of Technology, Computer Science and Engineering — *July 2019 – June 2023*
Selected Coursework: Linear Algebra & Calculus, Introduction to Deep Learning, Artificial Intelligence, Data Analytics, Algorithm Analysis & Design, Data Structures, Database Management Systems, Operating Systems, Compiler Design

EXPERIENCE

Packaged App Development Associate — July 2023 – July 2025
Accenture Song — *Kerala, India*
- Designed data pipelines and microservices with Spring Boot and Commercetools, enabling dynamic pricing, subscription analytics, and search ranking in a scalable e-commerce accelerator.
- Automated API testing and data validation pipelines with Karate and JUnit, raising test coverage from 42% to more than 85% improving system quality for faster release cycles.
- Built comprehensive unit and integration test suites, increasing system reliability and reducing production defects by 70% directly enhancing customer experience and business continuity.
- Automated data quality and system health checks with SonarQube integrated into CI/CD pipelines, supporting deployment and monitoring in AWS and Azure environments, enabling significantly faster detection of anomalies and performance bottlenecks.

Research Intern — Dec. 2021 – Dec. 2022
International Institute of Information Technology (IIITH) — *Hyderabad, India*
- Co-authored *IoT Node for Data Collection of Water Level to Automate Shutter Operation of Thanneermukkam Bund.*
- Designed and developed IoT nodes to collect real-time water level and stream slope data.
- Used regression and trend analysis to study variations in water levels relative to mean sea level.
- Built a flood prediction pipeline that integrates rainfall, slope, and historical water levels and established a rule curve to optimize shutter operations to balance agricultural and aquaculture needs.
- The project was recognized by the Government of Kerala and received funding for its potential to resolve the long-standing social conflict between farmers and fish cultivators.

PROJECTS

Peekaboo Learn: AI-based Learning App — Jan. 2023 – April. 2023
- Co-first authored *Enhancing Children's Learning Experience: Interactive and Personalized Video Learning with AI Technology*, presented at the 2023 IEEE International Conference on Recent Advances in System Science and Engineering (RASSE) and published on IEEE Xplore (doi:10.1109/RASSE60029.2023.10363506)
- Led a team and developed an interactive learning application for preschool kids, using Flutter SDK.
- Incorporated Google's ML Kit to support handwriting recognition on a white-board application that identified errors and provided immediate feedback.
- Integrated voice recognition feature to improve the learner's pronunciation.
- Gamified learning modules and featured a dashboard to provide analytics of learning progress.

She the Force Hackathon by IBM (semifinalist) — Aug. 2021 - Sept. 2021
- Competed in a prestigious hackathon aimed at proving sustainable solutions in agricultural sector
- Led and collaborated with a diverse team to design a low-budget IoT-based application for reduced reliance on insecticides and pesticides using Node-RED, IBM Watson IoT, Twilio, IBM Cloud Services, and IBM IoT Starter Kit.

INTERESTS & SKILLS

Skills: Python, Java, Node.js, Data Science, C, SQL, MongoDB, JavaScript, HTML/CSS
Activities: TA at IIITH, Boot camp leader at Saintgits, participant in several National Hackathons
Interests: Data Science, Machine Learning, Large Language Models, Software Development