

Linu Anil Teresa

Ellicott City, MD | [linkedin.com/linuteresa](https://www.linkedin.com/in/linuteresa) | github.com/linuteresa
(443)-800-6928 | lteresa@umd.edu

EDUCATION

University of Maryland

Master of Science, Data Science

College Park, MD

Sept. 2025 – Expected May 2027

Saintgits College of Engineering

Bachelor of Technology, Computer Science and Engineering

Kerala, India

July 2019 - June 2023

EXPERIENCE

Backend Developer

July 2023- July 2025

Accenture Song

Kerala, India

- Built and maintained Spring Boot microservices that powered analytics dashboards for e-commerce clients serving 10K+ users daily, improving system response time by 35-40%
- Automated API testing and data validation pipelines with Karate and JUnit, raising test coverage from 42% to more than 85% cutting QA turnaround by 60% and boosting release cadence.
- Integrated SonarQube quality gates and continuous integration pipelines on AWS/Azure, reducing production defects by 60%.
- Collaborated with cross-functional teams to analyze data performance and implemented optimizations at the microservice level that improved reliability and data synchronization.

PROJECTS

Peekaboo Learn: AI-based Learning App

Jan. 2023 – April. 2023

- Published IEEE paper: Enhancing Children's Learning Experience: Interactive and Personalized Video Learning with AI Technology,
- Presented the paper at IEEE International Conference, (RASSE 2023) and published on IEEE Xplore (doi:10.1109/RASSE60029.2023.10363506)
- Led a 4-member team and developed a Flutter-based AI learning app using Google ML Kit for handwriting recognition.
- Implemented backend services for progress tracking and analytics dashboards.
- Gamified learning modules and featured a dashboard to provide analytics of learning progress.

Flood forecasting Using IoT and Machine Learning

Dec. 2021 - Dec. 2022

Research Internship - International Institute of Information Technology - Hyderabad

- Designed IoT node network for real-time water level monitoring, developed ML models predicting flood risk with 65% accuracy on local hydrology datasets.
- Deployed a prototype for Kerala's Thanneermukkam Bund, enabling automated shutter alerts and real-time visualization via web dashboard, which was recognized and funded by the Government of Kerala

INTERESTS AND SKILLS

Technical Skills: Python, Java, Node.js, C, JavaScript

Data Science: Pandas, NumPy, Scikit-learn, Matplotlib, Data visualization

Cloud and DevOps: AWS, Azure, Terraform, Docker, SonarQube, Git

Databases: SQL, MongoDB

Activities: TA (Teaching Assistant) at IIITH, Boot camp leader at Saintgits, participant in several National Hackathons

Interests: Data Science, Data Visualization, Predictive analysis