

# Linu Anil Teresa

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## 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 2025- 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