

LALITH URITI

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EDUCATION

University of North Carolina at Charlotte

Bachelor of Science in Computer Science
Concentration in Systems & Networks

Charlotte, NC, US

Jan. 2025 – Dec. 2026

Manipal Institute of Technology at Manipal (Transferred)

Bachelor of Technology in Mechanical Engineering
Minor in Industrial Engineering and Business Management

Manipal, KA, IN

Aug. 2022 – Jun. 2024

EXPERIENCE

Founder & Lead Developer — Priori

University of North Carolina at Chapel Hill

Oct. 2025

Chapel Hill, NC, USA

- Developed **Priori**, a 3D implicit-function visualizer built with **Three.js**, **Math.js**, and Web Workers to render real-time mathematical surfaces and conic intersections.
- Designed a modular rendering pipeline with GPU-accelerated mesh generation, dynamic function parsing, and adaptive sampling for accurate geometry representation.
- Collaborated with teammate Josh on UI/UX design and real-time equation editing interface, enabling live visualization and AI-powered equation feedback.
- Presented Priori for the **Gemini API Prize Track** at HackNC 2025, showcasing the integration of AI and 3D visualization for math education and computational art.

Undergraduate Teaching Assistant

University of North Carolina at Charlotte

Aug. 2025 – Present

Charlotte, NC, US

- Supported 200+ students in ITSC 2600 by maintaining Canvas modules, coordinating course logistics, and dedicating 8+ hours per week to ensure smooth delivery of class content under Prof. Mark Strejc.
- Evaluated 80+ resumes and portfolios by providing detailed, constructive feedback, strengthening professional communication and improving student career readiness.
- Reinforced understanding of course material by answering student questions, clarifying assignments, and offering career guidance through resources, networking strategies, and interview preparation techniques.

Economics & Statistics Tutor

Wake Technical Community College - Scott Northern Wake Campus

Aug. 2024 – Dec. 2024

Raleigh, NC, US

- Improved student performance in quantitative courses by delivering 30+ hours of tutoring to 30+ peers in Mathematics, Statistics & Probability, and Economics
- Increased exam readiness and confidence by guiding students through coursework and study strategies in over 20 individual and group sessions.
- Enhanced collaborative learning outcomes by supporting classmates individually and in groups of up to 5 students through interactive problem-solving sessions.

PROJECTS

SoYouJustRun | Github Pages, Markup, Python, Java, Git

Jun. 2024 – Present

- Authored 20+ tutorials on endurance training, nutrition, and fitness technology, serving as reference material for peers and collaborators.
- Expanded platform to document custom bike builds and mechanical projects, highlighting design, repair, and component integration.
- Bridged athletic performance and engineering by showcasing open-source training tools and technical workflows.

EllipsePy | Python, Plotly, NumPy, Pandas, Git Workflow

Feb. 2025

- Designed and deployed a Python library to model orbital trajectories using numerical integration methods, enabling simulation and visualization of orbital mechanics.
- Integrated NASA Ephemeris data to support accurate trajectory mapping for real-world space missions.
- Published project as open source, earning a community fork and adoption in research-oriented explorations.

TECHNICAL SKILLS

Languages: Python, Java, C, Go, Swift, Kotlin, Ruby, Javascript, CSS/HTML, C++, SQL (PostgreSQL), R

Libraries: LangChain, Matplotlib, NumPy, Pandas, PyPDF2, PyTorch, Scikit-Learn, Streamlit, TensorFlow

Frameworks: Spring Boot, Flask, FastAPI, React, Node.js, JUnit, Material-UI, Bootstrap