

# Toluwani Esan

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portfolio-one-henna-53.vercel.app

## PROFESSIONAL SUMMARY

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Computer Science student (GPA: 3.96) with hands-on experience in systems design, requirements definition, and product delivery across medical VR, healthcare infrastructure, and ML. Certified Scrum Master.

## EDUCATION

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### Alabama A&M University

B.S. Computer Science — Honors Program. GPA: 3.96 / 4.00.

Huntsville, AL

Expected May 2027

Relevant Coursework: Data Structures, Theory of Algorithms, Discrete Structures, Digital Logic Design, Probability & Statistics

## EXPERIENCE

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### Undergraduate Research Assistant

College of Engineering & Technology, Alabama A&M University

Spring 2025

Huntsville, AL

- Interviewed clinicians to gather requirements, synthesizing symptoms, edge cases, and references into a data architecture and 3D model pipeline for a Meta Quest 3 medical VR application, resolving 12+ data inconsistencies across two pipeline redesigns.
- Reduced clinician onboarding time by ~20% and doubled processing speed by decoupling sensor data from the render layer.

### Peer Tutor, Python & C++

Tutorial Assistance Network

Spring 2026 – Present

Huntsville, AL

- Delivered 100+ sessions to 30+ undergraduates; 90%+ satisfaction, 50%+ return rate, outperforming dept. averages by 15%.

## PROJECTS

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### MediLink Africa — Healthcare Coordination Platform

Next.js, REST APIs, PostgreSQL, Cloud Infrastructure

- Independently scoped and architected a multi-service platform spanning a referral engine, SOS dispatch, and admin governance, defining service boundaries so hospitals, labs, pharmacies, and patients each scale independently.
- Drove API design decisions across 4 domains, selecting a relational model after benchmarking 200 simulated concurrent users and sustaining 99.9% uptime over a 2-week load test.
- Produced system documentation including an ER diagram, API spec, and runbook, cutting referral time by 30%.

### Event Planner Manager

Next.js, Node.js, PostgreSQL, TypeScript, Tailwind, Prisma

- Defined system requirements for scheduling, budgeting, and vendor booking, normalizing the data model across 3 entities and reducing confirmation time by ~40%; vendor module rated 95% by peer evaluators.

### Academic AI Tutor — Deep Learning Chatbot

Python, TensorFlow, Keras, Flask, NLP | CS-450 Group Project

- Scoped model requirements and designed the architecture and training pipeline for a deep learning chatbot covering 9 academic subjects, coordinating a 4-person team across a TensorFlow/Keras NLP classifier and Flask web server.

## CERTIFICATIONS

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- PSM I Scrum Master (Scrum.org)
- Leland PM Bootcamp
- Codepath TIP101

## AWARDS & HONORS

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- Honors Program Scholar
- Presidential Scholar
- Dean's List

## SKILLS

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**Systems & Architecture:** REST API design, service decomposition, ER modeling, requirements definition, system documentation, load testing

**Methods & Delivery:** Agile Scrum (PSM I), product requirements, stakeholder communication

**Languages:** Python, JavaScript, TypeScript, C++, Java

**Web & Frameworks:** Next.js, React, Node.js, Flask, Tailwind CSS, Prisma, Git/GitHub

**Data & AI:** PostgreSQL, SQLite, TensorFlow, Keras