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# Education

**North Carolina State University** Raleigh, NC

Sophomore, Computer Science Graduation Date Thesis 2027

Relevant Coursework: Software Development Fundamentals, Discrete Mathematics, Introduction to Computing

**Georgia Tech** Atlanta, Georgia

Computer Engineering Transferred out in 2024

**Triangle Math and Science Academy** Apex, NC

Graduated with 4.17 GPA, 32 ACT score Spring 2023

# North Carolina State University

**Experience**

**Research** January/25 – Present

* Work on research project using GIS data and urban growth simulations to predict urban development based on road infrastructure
* Develop and use tools to analyze complex data involving multilayered growth simulations
* Utilize python and java scripts to quantify the relationship between transportation infrastructure and urban growth
* Understand and work with professional grade Geospatial Information Systems and their related components

# Membership & Activities

**BAJA SAE Electronics** August 24 – Present

* Work on a sensor system using Hall effect sensors, strain gauges, and other DAQ devices to acquire data on a car’s performance
* xHost a Nginx server on raspberry Pi to access data acquired from sensors
* Develop front and back end for communication and easy access of contents between client and server.

**2025 Hackathon – (Finwiz https://github.ncsu.edu/kaghanem/FinWiz)** August 24 – Present

* Created an AI locally running chatbot called FinWiz (Financial Wizard) which answers users’ questions on financial topics
* Flavored the AI model to talk specifically like an olden wizard
* Developed multiple front and back-end solutions using Flask and JavaScript to create a clean UI design.

**Skills & Interests**

**Technical:** Proficient in JavaScript, Java, C#, python, flutter, html, GIS, Unreal Engine, Unity

**Language:** Fluent in English, Arabic

**Laboratory:** Excel,GIS systems, Population modeling software, Server hosting services (Apache, Nginx)

**Interests:** Soccer (Barcelona Fan), Basketball (Hornets Fan), video games (Working on small game projects)