

# Rohan Yarlagadda

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## EDUCATION

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**University of Delaware**, Newark, DE

Expected Graduation 2024

*BS in Computer Science*

*GPA: 3.5*

*Relevant Coursework:* Machine Learning, Operating Systems, Logic for Programming, Data Structures, Programming, Web-Design, Algorithms, Data Mining, Automata Theory, Computer Vision, Artificial Intelligence

## WORK EXPERIENCE

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**Clemson University**, Clemson, South Carolina

June 2023 – September 2023

*Research Intern*

- Worked together with graduate students and professors to develop a neural network to predict and generate engineering models for specific uses and inputs
  - Self-taught Gmsh to mesh structural models
  - Used Abaqus for stress testing engineering models

**UD Undergraduate TA**, Newark, DE

September 2022 – December 2022

*Teaching Assistant*

- Overseeing discussion section for General Chemistry (CHEM103)
  - Teaching/reinforcing topics covered in lecture
  - Proctoring quizzes and tests

**Composites Automation LLC**, Newark, DE

June 2022 – September 2022

*Summer Intern*

- Collaborated with senior mechanical engineers for NASA sponsored research project to port external Python scripts to built-in TCL/TK scripting interface in HyperWorks. This eliminated export, parsing and modification of large model datasets from HyperWorks.
  - Self-taught TCL/TK and implemented script logic in TCL
  - Demonstrated script functionality in HyperWorks for engineering analysis problems

**UD Center for Composite Materials**, Newark, DE

June 2017 – August 2021

*Research Intern*

- Starting with the summer of 9<sup>th</sup> grade, worked as a research intern at the Center for Composite Materials to manufacture and test custom made carbon fiber AFO's (ankle foot orthoses) for stroke rehab patients.
  - Composite manufacturing – pattern nesting software, part manufacturing, and performance assessment
  - Image analysis for part quality assessment using ImageJ
  - Gait & motion analysis software for assessment of human biomechanics

## PROJECTS

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**UD CIS Scheduler**

March 2022 – May 2022

- Created a scheduler that helps computer science majors select their courses and plan out future semesters
  - Tech stack: HTML, Typescript, and ReactJS

**Pokedex API**

April 2021 – May 2021

- Created a pokedex API and implemented a GUI for easier usage and better interaction
  - Tech stack: Java and Swing library

**Raspberry Pi Etch A Sketch**

April 2021 – May 2021

- Implemented Etch A Sketch into Raspberry Pi on Sense Hat
  - C programming knowledge

## SKILLS

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- *Languages:* Java, Python, C++, C, Typescript, Javascript, HTML, TCL/TK
- *Technologies:* ReactJS, AWS
- *Certifications:* AWS Cloud Practitioner, AWS Solutions Architect Associate (In-Progress)

