Yashas Ambati

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Education

Georgia Institute of Technology **Aug. 2021 – May 2025 (Expected)**
Bachelor of Science in Computer Science, GPA: 4.0/4.0 *Atlanta, GA*

North Carolina School of Science and Mathematics **Aug. 2019 – May 2021**
High School Diploma *Durham, NC*

Experience

NCR **May. 2022 – Present**
Software Engineer Intern *Atlanta, GA*

- Built out an **AI-enabled** smart produce stand than enables consumers to quickly tag bagged produce.

PlayerZero **Jan. 2022 – Apr. 2022**
Software Engineer Intern *Atlanta, GA*

- Added incremental features to user session simulation suite using **TypeScript, Kotlin, and Mongo DB.**

Zebracorn Robotics **Jun. 2018 – Jul. 2021**
Computer Vision Lead *Durham, NC*

- Led a team of 15 programmers to develop robust computer vision and sensing systems for our competition robot using **Linux, Python, C++, ROS, and Git**.
- Implemented an object detection system using the **Single Shot MultiBox Detector** (SSD) architecture trained via transfer learning and optimized using **TensorRT** for the NVIDIA Jetson platform.
- Gave a talk at ROSWorld 2021, the premier international conference for ROS developers, about *Bringing Autonomous Driving to the Largest High School Robotics Competition.*

Technical Skills

Languages: Java, Python, C++, TypeScript, Kotlin
Technologies/Frameworks: Linux, Git, Robot Operating System (ROS), React, Next.js, Express
Developer Tools: VS Code, GitHub, Postman

Projects

Coursify | *TypeScript, Next.js, Tailwind CSS, Python 3, Flask, Firebase* **Mar. 2022**

- Created a Next.js application that allows Georgia Tech students to track course seating changes.
- Built a periodic crawler that notifies users when a course they are tracking has open seats using Twilio API.

Toy Pandemic Simulation | *Java, Processing, Python 3, Matplotlib* **Apr. 2020**

- Implemented a toy compartmental model to simulate the spread of infectious disease using Processing.
- Wrote a Python script to process timestamped data and generate plots for scientific communication.

Leadership / Extracurricular

RoboJackets **May 2022 – Present**
Software Developer

- Develop perception and control algorithms for a fully-autonomous Mars rover prototype using **C++** and **ROS 2**.

The Ryden Program for Innovation in Artificial Intelligence **Jun. 2020 – May 2021**
Teaching Assistant

- Built machine learning curricula and developed interactive projects to demonstrate artificial intelligence for social good.
- Organized fully-virtual, two-day hackathon for high school students from across North Carolina focused on using technology for social good.

Teaching Innovation and Graciousness through Engineering and Robotics **Summer 2019**
Programming Instructor

- Developed detailed programming curricula for rookie FIRST Robotics Competition (FRC) teams.
- Taught robotics-specific Java programming to 20 high school students from underrepresented communities through a week-long intensive workshop.