

Siddharth Raghunayakula

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RELEVANT TECHNICAL SKILLS

Computing Languages and Frameworks – Python, Java, HTML/CSS, Javascript, Next JS, Node JS, React, Django, Flask, FastAPI, Swift

Database Technologies - SQL, MySQL, MongoDB, Firestore

Applications - Postman, Unity, Github, Heroku

WORK EXPERIENCE

Tech Optima, Hyderabad, India — *AI Research Intern(Remote)* June 2026 – Aug 2026

- Debugged, tested, and improved evaluation pipelines for big language models in order to contribute to the OpenVals benchmarking system.
- Using defined benchmarks, prominent open-source and proprietary LLMs were evaluated. The findings were interpreted to determine the model's advantages, disadvantages, and performance trade-offs.

Doctorite Inc, Hyderabad, India — *Software Developer Intern(Remote)* June 2023 – Aug 2023

- Developed an implementation of a machine learning model in Python to recognize a user's emotions in real time through computer vision and pre-trained models
- Researching implementations of rPPG using technologies such as OpenCV to calculate a user's heart rate through the camera feed
- Created a prototype AI chatbot model that can be used as a virtual assistant for users to find solutions for potential problems user is experiencing

PROJECTS

Minecraft Autocomplete July 2026

- Built an IDE-like system for Minecraft building that predicts the next block placement based on user's previous building history
- Trained a transformer model on the CraftAssist dataset and returned model predictions through a FastAPI inference API
- Developed a Fabric mod that visualizes the predicted block and supports one-key acceptance in the game

Snake RL Agent June 2026 - July 2026

- Developed my own Deep Q-Learning Agent to play Snake
- Designed reward functions and the training logic for efficient reinforcement learning
- Visualized model performance with matplotlib and automated training and gameplay visualization

Hoop Deck March 2026 - June 2026

- Built a full-stack web application with responsive UI and data management
- Built reusable frontend components and utilized machine learning algorithms to develop a custom rating system
- Optimized application performance and user experience

EDUCATION

Rutgers, New Brunswick, NJ May 2029

Bachelor of Science in Computer Science

Montgomery High School, Skillman, NJ June 2025

High School Diploma

- 1570 SAT
- Received AP Credit for AP CS A, BC Calculus, and Statistics
- Awarded AP Scholar with Distinction