

Nikhil Daehee Agarwal

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EDUCATION

Georgia Institute of Technology

M.S. in Computer Science, GPA: 4.0/4.0
spec. Machine Learning

Atlanta, GA
Expected December 2025

Rutgers University-New Brunswick

B.S. in Computer Engineering, GPA: 3.71/4.00
Secondary Academic Discipline - Computer Science
Summa Cum Laude (Highest Honors), Rutgers HKN ECE Honor Society

New Brunswick, NJ
May 2024

RELATED COURSEWORK

Artificial Intelligence
Data Structures

Software Engineering
Machine Learning for Trading

Deep Learning
Machine Learning

Database Systems & Design
Natural Language Processing

WORK EXPERIENCE

Microsoft

Software Engineer Intern

- Incoming Summer 2025

Redmond, WA

Paramount

Software Engineer Intern | Global Media Processing & Distribution Systems

- Optimized an NLP text correction pipeline, leveraging Pandas and AWS (S3, Lambda, Bedrock, SNS), resulting in an 80% reduction in end-to-end runtime
- Designed and implemented a text difference recognition and highlighting algorithm, enhancing user productivity by 40%
- Engaged in Agile practices, including standups, sprint planning, and code reviews; contributed by making pull requests, resolving merge conflicts, and merging code

New York, NY
June 2024 - August 2024

Barclays

Software Engineer Intern | Group Financial Crime Operations & Client Onboarding

- Developed and presented an ML-based troubleshooting system for the mobile banking app to over 300 colleagues and executives
- Optimized data management in Microsoft SQL Server by normalizing datasets, streamlining information queries and updates
- Deployed an updated client onboarding software, boosting KYC Analyst productivity by 20%

Whippany, NJ
June 2023 - August 2023

Makonis

Software Engineer Intern

- Designed and implemented a backend Java project that consolidates Profit & Loss Statements into a single financial statement
- Collaborated with team members in code review to refactor outdated code and enhance code readability

Morris Plains, NJ
December 2021 - January 2022

PROJECTS

StudentX | Python, Flask, PyTorch, Docker, Firebase, Google Cloud Run

- Developed a peer-to-peer marketplace for Rutgers students with user authentication, direct messaging, and listing recommendations
- Utilized a Hugging Face transformer to generate text embeddings for a cosine similarity semantic search on the Store & FAQ page
- Implemented a KNN recommendation system that suggests similar items to users with similar user matrices

[Github](#) | [Live-Link](#)

Spaceship Handyman | Python, Numpy

- Developed A* search algorithms, Bayesian Networks, and Markov Chains to help the AI bot (handyman) navigate the spaceship
- Trained and developed two neural networks with a combined 99.04% accuracy on a test dataset to help the bot complete image recognition tasks

[Github](#)

Brew & Bites | Java, XML, Android SDK

- Created a cafe application using object-oriented & event-driven programming where users can browse and add items to a cart, view price totals, place orders, and view order history
- Implemented inheritance and polymorphism for all menu item classes (coffee, donut, etc.)

[Github](#)

VOLUNTEER WORK

Urban League of Morris County

Mentor & Volunteer Math Teacher | Power Systems Institute

- Delivered personalized math tutoring to aspiring electricians from underprivileged backgrounds, fostering an environment that promotes diversity and equity
- Empowered candidates by building their confidence in math, helping them achieve academic success and overcome educational barriers

Morristown, NJ
May 2018 - August 2020

SKILLS

Programming: Python, Java, C++, JavaScript, C, SQL, Matlab

Frameworks & Libraries: PyTorch, Flask, NumPy, Pandas, Spring, Scikit-Learn

Technologies & Tools: AWS, Git, Google Cloud Platform, Linux, Docker, Jira, Confluence, Firebase, Gradle, Jupyter Notebook, Ubuntu

Soft Skills: Excellent communication and organizational skills, problem-solving, critical thinking, and teamwork