

Nikhil Daehee Agarwal

Bridgewater, NJ 08807 | +1 732-829-9846 | nagarwal307@gatech.edu
github.com/nikhildagarwal | [linkedin.com/in/nikhildagarwal](https://www.linkedin.com/in/nikhildagarwal) | nikhildagarwal-portfolio.com

EDUCATION

Georgia Institute of Technology

M.S. in Computer Science, spec. Machine Learning

Atlanta, GA
Expected May 2026

Rutgers University-New Brunswick

B.S. in Computer Engineering, GPA: 3.71/4.00

New Brunswick, NJ
May 2024

Secondary Academic Discipline - Computer Science

Summa Cum Laude (Highest Honors), Rutgers HKN ECE Honor Society

RELATED COURSEWORK

Graduate Algorithms

Software Engineering

Deep Learning

Database Systems & Design

Data Structures

Machine Learning for Trading

Machine Learning

Discrete Structures

Network Programming

Artificial Intelligence

Operating Systems

Linear Algebra

WORK EXPERIENCE

Paramount

New York, NY

Software Engineer Intern | Global Media Processing & Distribution Systems

June 2024 - August 2024

- 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

Barclays

Whippany, NJ

Software Engineer Intern | Group Financial Crime Operations & Client Onboarding

June 2023 - August 2023

- 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%

Makonis

Morris Plains, NJ

Software Engineer Intern

December 2021 - January 2022

- 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- Collaborated with team members in code review to refactor outdated code and enhance code readability

PROJECTS

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

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

- 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

Spaceship Handyman | Python, Numpy

[Github](#)

- 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

Notepad App "Infinote" | Python, SQL, Flask, Docker, Google Cloud Run

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

- Implemented a notepad, calendar, and password storage app using the Flask framework
- Utilized an SQLite3 database with data normalization for efficient querying and data cleanup

Brew & Bites | Java, XML, Android SDK

[Github](#) | [Google Play](#)

- 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.)

VOLUNTEER WORK

Urban League of Morris County

Morristown, NJ

Mentor & Volunteer Math Teacher | Power Systems Institute

May 2018 - August 2020

- 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

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