

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 Atlanta, GA
M.S. in Computer Science, spec. Machine Learning Expected May 2026

Rutgers University-New Brunswick New Brunswick, NJ
B.S. in Computer Engineering, GPA: 3.71/4.00 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 | Python, AWS, Jira, GitHub, Ubuntu June 2024 - August 2024

- Global Media Processing & Distribution Systems
- Optimized an NLP text correction pipeline using Pandas, AWS s3, lambda, bedrock & SNS, cutting runtime by 80%
- Authored a text difference recognition & highlighting algorithm for the NLP pipeline, boosting end user productivity by 40%

Barclays Whippany, NJ
Software Engineer Intern | Java, Spring, Microsoft SQL Server, Jira June 2023 - August 2023

- Group Financial Crime Operations, Wholesale KYC and Client Onboarding
- Developed and presented an ML troubleshooting system for the Barclays mobile banking app to 300+ colleagues & executives
- Assisted in deploying latest version of client onboarding software increasing internal KYC Analyst productivity by 20%

Makonis Morris Plains, NJ
Software Engineer Intern | Java December 2021 - January 2022

- Developed and implemented a Java project that verifies and consolidates Profit and Loss (P&L) statements single financial report
- Exported P&L statements from *Intuit Quickbooks* as .csv files, and generated a detailed report of the group's Total Income, Cost of Goods Sold (COGS), Expenses, Net Other Income/ Net Ordinary Income, etc.

Wyant Bridgewater, NJ
Math Tutor September 2020 - Present

- Provided 1:1 support to students in high school & college level mathematics by planning lessons and reviewing study techniques

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/password storage app using the Flask framework
- Utilizes SQLite3 database with data normalization for efficiency & 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 May 2018 - August 2020

- Actively supported field electrician candidates through the Urban League Power Systems Institute Program

First Energy is a utility company that hires field electricians through this Urban League Program. Candidates undergo trials in physical strength, climbing, tool knowledge, English, and Mathematics.

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