

Rohil Singh

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Availability: January – August 2026

EDUCATION

Northeastern University Khourey College

Boston, MA

Candidate for Bachelor of Science – Computer Science (GPA: 3.4/4.0)

Sep 2023 – May 2027

- Coursework: Algorithms, Object Oriented Design, Computer Systems, Database Design, Discrete Structures, Mathematics of Data Models, Foundations of Cybersecurity, Artificial Intelligence, Natural Language Processing, Machine Learning

Raritan Valley Community College

Branchburg, NJ

Associate's Degree (Dual HS Enrollment) – General Science Pre Health (GPA: 3.7/4.0)

Sep 2020 – May 2023

- Coursework: Calculus I & II, English Composition I & II, General Physics I & II, Human Anatomy & Physiology I & II.

Academy for Health and Medical Sciences

Bridgewater, NJ

High School Diploma (GPA: 3.9/4.0)

Sep 2019 – Jun 2023

- Selected Extracurriculars: SkillsUSA Quiz Bowl (Captain, National Champion); Future Business Leaders of America (President, National Level); Science Olympiad (Medalist, State Level); Student Council (Treasurer); Mathnasium Student Tutor; Columbia Science Honors Program (incl. Intro to R Programming); Varsity Basketball Team.

SKILLS & AWARDS

Software Languages: Java | Python | SQL | HTML | CSS | JavaScript | C | C++ | C# | Linux | RStudio | Assembly (ARM) | gdb

Certifications & Awards: Java SE 8 Associate Programmer I IZO-808 (Aug 2024);

1st Place Nationals SkillsUSA QuizBowl (2021, 2022, 2023), 1st Place States FBLA (2022)

EXPERIENCE

Northeastern University Khourey College

Boston, MA

Teaching Assistant

August 2025 – Present

- Provided individualized mentorship during weekly 1-on-1 sessions, guiding students on coursework performance and academic growth.
- Delivered a virtual workshop on algorithmic problem-solving to 300+ students, providing real-time support and question answering.
- Evaluated student assignments and projects, delivering constructive feedback on code, algorithm design, and debugging techniques.

Viscosity North America

Dallas, TX

Data Analyst Intern

May 2025 – Aug 2025

- Analyzed timelines for database modernization projects across clients; segmented phases in MySQL/Excel to surface high-effort drivers.
- Quantified delay factors (code conversion, test migration) and modeled scenarios; identified code conversion as 35-45% of total timeline.
- Presented optimization recommendations (parallelization, automation, consultant augmentation) to leadership.

Outlier AI (Remote)

Oakland, CA

Generative AI Mathematics Engineer – Part-Time

May 2024 – May 2025

- Evaluated LLM-generated math responses using rubric checks; streamlined prompts and datasets, improving answer accuracy by ~10%.
- Processed complex mathematics tasks (NumPy/MATLAB-style in Python) to build training sets and edge-case regressions.
- Collaborated with partner teams (e.g., Flamingo AI, Scale AI) on vectorized array ops and linear algebra queries.

Coaching To Contribute Nonprofit (coachingtocontribute.org)

Hillsborough, NJ

Co-Founder

May 2018 – Present

- Utilized JavaScript on Wix to build company website enabling large scale interaction and support.
- Fundraised shipping and logistical costs by offering weekly Math and English classes to students in 5th to 10th grade.
- Led quarterly clothing drives to bridge the Indian attire donation gaps between the US and underprivileged communities across India, facilitating the overseas donation of more than 40,000 pounds of clothing over 5 years.

PROJECTS

Personal Website (HTML, CSS, JavaScript) – <https://singh-rohil.github.io/>

- Developed a responsive portfolio website using HTML, CSS, and JavaScript to highlight achievements and projects.
- Integrated interactive features like image popups, animations with AOS, and embedded Google Forms.
- Deployed via GitHub Pages for accessibility, professional presentation, and seamless integration.

MBTA Efficiency Analysis (MySQL, Python, Excel) – Analyze before and after CEO change

- Scraped and preprocessed MBTA performance data using Python, then we imported it into MySQL for analysis.
- Designed SQL queries to compare key metrics (on-time rates, delays, ridership) before and after the 2023 CEO transition.
- Identified trends and efficiency improvements, delivering actionable insights to evaluate leadership impact.

ThreeTriosGame (Java, Swing, JUnit) – A MVC based card game engine

- Generated generic MVC core with immutable state and factory-driven grid/deck formation supporting CLI and Swing GUI.
- Implemented three AI heuristics (corner-hardness, minimalized vulnerability, baseline) for human-vs-AI & AI-vs-AI gameplay.
- Built file-driven parsing grids and decks with invariant enforcement and error prompts, backed by 100% JUnit test coverage.