# Rayna Yu

Boston, MA | +1 774-315-6408 | rayna-yu.vercel.app | linkedin.com/in/rayna-yu | github.com/Rayna-Yu
Available to work: January 2026 - August 2026

## EDUCATION

**Northeastern University** Boston, MA
Candidate for Bachelor of Science September 2024 - May 2028
Computer Science and Mathematics GPA: 4.0/4.0 | Honors: Dean's List, Dean's Scholarship
Relevant Coursework: Object-oriented design, Algorithms (Graduate-level), Artificial Intelligence, Theory of computation, Matrix Methods in Data Analysis and Machine Learning, Linear Algebra, Probability and Statistics

## SKILLS

**Languages:** Java, Python, MATLAB, JavaScript, TypeScript, SQL, HTML/CSS
**Frameworks:** React, Node.js, FastAPI, PgAdmin 4, NumPy, Scikit-learn, Pandas, Matplotlib, Turf.js
**Tools & Technologies:** Git/Github, Visual Studio Code, Eclipse IDE, Linux

## EXPERIENCE

**Code 4 Community** January 2025 - Present
Software Developer Boston, MA
- Build full-stack web applications for non-profits across Boston (GI Boston, Securing Safe Food, NEFAC, ect.)
- Streamline backend operations alongside a team of 7 developers for a recruitment portal using React, PostgreSQL, PgAdmin 4, and Node.js to ensure efficient data storage, retrieval, and processing

**Northeastern University Khoury College of Computer Science** September 2025 - Present
Teaching assistant, CS 2800: Logic and Computation Boston, MA
- Support 100+ students in propositional logic, first-order logic, computability, and formal proofs using Python and OCaml
- Lead review sessions through weekly office hours, focusing on formal reasoning and theory application

**Teuscher Lab** May 2025 - August 2025
Undergraduate Researcher Remote
- Engineered a React Native mobile navigation app integrating multi-source GeoJSON datasets, OpenRouteService API, and FastAPI backend to optimize routes by detecting pedestrian-specific hazards in real time
- Trained and evaluated random forest models in Scikit-learn, Pandas, and NumPy using collision data with a 94% accuracy
- Published and presented the project paper as the leading author at the Final Symposium (paper available upon request)

**Northeastern University Khoury College of Computer Science** May 2025 - July 2025
Teaching assistant, CS 1800: Discrete Structures Boston, MA
- Assessed 100+ assignments and exams using standardized rubrics and digital tools
- Facilitated weekly recitations and office hours for 30+ students, enhancing understanding of logic, set theory, and discrete math concepts

**RISD Museum** September 2022 - June 2024
Museum Curator Providence, RI
- Collaborated with a team of 12 peers to curate Listen!, the first fully teen-led exhibit, featuring a blend of 30 historical and contemporary works on societal issues, drawing over 5,000 visitors in its first week.
- Exhibit link: https://risdmuseum.org/exhibitions-events/exhibitions/listen

## OTHER PROJECTS

**Robot Path Planner - Matlab**
- Engineered a 2D robot path planner combining Dijkstra and reinforcement learning for real-time, collision free navigation

**Calendar Application - Java, GUI, Swing**
- Designed a calendar using OOD principles and MVC architecture

**Nim Sum Player - Python**
- Programmed an AI to optimally play Nim using XOR and binary strategies

## VOLUNTEER EXPERIENCE

**Animal Rescue League of Boston** August 2023 – Present
Shelter Support Boston, MA
- Assist with animal care for 50+ cats and contributed to team efforts to improve animal welfare by evaluating animal behavior.