Smaran Teja

smaranteja32@gmail.com | (339) 208-3874 | Boston, MA
LinkedIn | GitHub

Education

Northeastern University, Boston, MA — Sep 2023 – Present
Khoury College of Computer Sciences
Candidate for Bachelor of Science in Computer Science, Expected May 2027

Relevant Courses: Programming languages | *Accelerated* Fundamentals of Computer Science 1 & 2 | Algorithms and Data | Object Oriented Design | Logic and Computation | Computer Systems | Foundations of Cybersecurity | *Intensive* Math Reasoning | Math of Data Models | Discrete Structures | Theory of Computation

GPA: 3.77/4.00

Technical Knowledge

Languages: Java | Python | C | Racket | Flutter (Dart) | ROCQ | SwiftUI
Applications/software: VS Code | Android Studio | Xcode | GitHub | Eclipse | Firebase | NetBeans | MySQL | IntelliJ IDEA | OpenAI APIs | Jinja | Flask | DrRacket

Experience

Research assistant: Probabilistic Profiler, Northeastern University — Sep 2025 – Present
- Developed benchmarking tool for developer commits to Roulette probabilistic programming language
- Designed subsampling algorithm and visualization for code profiling tool

Course assistant: CS2100 — May – Sep 2025
- Developed Python autograders with Pawtograder support on Github actions with support for mutation testing.
- Assisted in development of course materials and infrastructure for new course.

Teaching Assistant: Logic and Computation, Northeastern University — Jan – Apr 2025

Teaching Assistant: Fundamentals 1, Northeastern University — Sep – Dec 2024
- Lead TA for a lab section and held weekly office hours to reinforce lecture concepts
- Contributed to the auto-grader development team: programmatically assessing student code and test suites

Research assistant: Synth Research Project, Northeastern University — Jan – June 2024
- Developed an LLM-based Program Synthesis tool
- Incorporated Doctests and Property tests in python as specifications for synthesis
- Authored a research paper: "*Programming with non-algorithmic specifications*"

Projects

FeedBot: Automated feedback tool, Northeastern University — June 2024 – Present
- Developed an automated feedback tool for computer science homework submissions
- Project has become a mainstream tool in Fundamentals 1 courses at Northeastern University
- Developed a website to display problem-wise feedback to students
- Was used in classes at Northeastern with 500+ students for 10+ homework assignments
- Co-authored report: "*Feedbot: Formative Design Feedback on Programming Assignments*"