

# Jesal Gandhi

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**Security Clearance:** Secret-level security clearance (2023—)

## EDUCATION

### Stevens Institute of Technology

*Bachelor of Science in Computer Science*

**Hoboken, NJ**

*Expected December 2024*

**Cumulative GPA:** 3.86/4.00

**Honors:** The Edwin A. Stevens Scholarship, Dean's List (All Semesters)

**Relevant Coursework:** Systems Programming, Operating Systems, Web Programming, Agile Methodologies, Algorithms, Data Structures, Computer Architecture and Organization, Theory of Computation, Discrete Structures, Linear Algebra

## PROFESSIONAL EXPERIENCE

### MIT Lincoln Laboratory

*Research/Software Engineering Intern — Tactical Networks Group*

**Lexington, MA**

*June 2023 — August 2023*

- Successfully deployed a containerized, scalable cross-domain solution from scratch, including backend and frontend components, improving the efficiency of tactical network emulation and secure data transmission.
- Bolstered data security by developing a custom Apache NiFi flow that distinguishes data flows using custom XQueries, enabling the secure transmission of JSON files across separate, protected domains via HTTP.
- Streamlined security operations for system administrators by developing an intuitive web GUI for real-time NiFi configuration revisions using Python, JavaScript, Flask framework, and NiFi REST API, resulting in a more user-friendly and efficient workflow for administrators.

## PROJECT EXPERIENCE

### CPUUseless!: 8-bit CPU with Custom Programming Language/Assembler - [Github](#)

*December 2022*

- Designed an 8-bit CPU using Logisim, featuring instruction sets for addition, subtraction, and data loading.
- Developed a programming language optimized for the CPU's architecture, ensuring efficient code execution.
- Implemented an assembler in Python, enabling the conversion of high-level code into machine code compatible with the CPU that could be executed within the Logisim simulation environment.

### TabCap: Open Source Google Chrome Extension - [Chrome Web Store](#)

*July 2022*

- Engineered an open-source Chrome extension that empowers users to manage their browsing experience by limiting the number of open tabs, resulting in a reduction in tab clutter and increased productivity.
- Leveraged Chrome's APIs to seamlessly store user-specific settings after the browser has been closed and automatically close any tabs over the user-set tab limit, enhancing user customization and experience.
- Created an intuitive options page in HTML, enabling users to set a maximum tab limit with ease.

### Climaction: Climate Change App - [Devpost](#)

*March 2022*

- Secured first place at the Hoboken Climate Hackathon by creating an iPhone app in Figma and Bravo Studio that uses a reward system and gamification to engage users in the fight against climate change.
- Designed a unique in-game currency system that allows users to make charitable donations to climate organizations based on positive environmental actions, fostering a self-sustaining cycle of user contributions.
- Produced a leaderboard page to boost user retention and promote a sense of community among local users.

### Roommate Roulette: Full Stack Roommate Matching Platform - [Github](#)

*December 2023*

- Collaboratively developed a full-stack website that eases the search for a roommate through group-based matching and communication.
- Contributed to core reliability features, including deletion processes for users and groups, real-time messaging system,

## SKILLS

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- **Languages:** Python, C, JavaScript, HTML/CSS (Proficient); C++, ARMv8, Java, SQL (Intermediate)
- **Tools:** Git, Linux, Bash, Apache NiFi, Docker/Podman, jQuery, Wireshark, NodeJS, VueJS, Figma
- **Certifications:** Student Researcher at NYU AI School, CS50x Graduate