TYLER AMALFA

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SUMMARY

Motivated and versatile recent engineering graduate with dual degrees in Electrical Engineering and Computer Science from Rutgers University. Experienced in software development, computer vision, and AI, with a strong foundation in hands-on projects and technical problem-solving.

SKILLS & INTERESTS

Skills:	Python, Java, MATLAB, C, C++, Git, Deep Learning, Computer Vision, Robotics
Interests:	Skateboarding, Films and Filmmaking, Creative Writing

EDUCATION

Rutgers University — New Brunswick, NJ
BS Electrical Engineering, Minor in Creative Writing *GPA: 3.76* — September 2021 - May 2025

BS Computer Science

WORK EXPERIENCE

Mutual of America — New York, NY
Information Security Intern — June 2023 - August 2023

- Automated InfoSec Processes using Java, reducing time spent by ~50% weekly, deployed application to company server.
- Collected critical data from hundreds of company servers to help upper management build disaster recovery plan.

Rutgers University — New Brunswick, NJ
School of Engineering Student Tutor — January 2023 - May 2025

- Tutored 30+ students in EE/CS courses, with >85% reporting improved exam performance.
- Provided critical last minute support to students during midterm and final exam periods

Freehold Township Recreation — Freehold, NJ
Summer Camp Counselor — June 2017 - August 2022

- Supervised and led daily activities for 70+ children (K–6), resolving behavioral challenges and coordinating with parents and administrators over 6 summers.

PROJECTS

Synchronous ASL Translator (SASLT) *Python, OpenCV, MediaPipe*
A live video translator for American Sign Language finger spelling, using a fully connected neural network to convert hand landmarks to letters. Features text to speech for completed words.

Chess AI *Java, Alpha-Beta Pruning*
Developed a version of Chess by programming all moves and pieces, and then programmed a "bot" capable of playing the game by choosing optimal moves, currently capable of beating novice to intermediate players.

Wordle Solver *Java, Selenium*
Capable of solving 95% of Wordle puzzles in ≤4 guesses using Selenium-based automation.

Snake Bot *Java, JavaFX, A* Algorithim*
Built the classic game Snake, as well as wrote a "bot" capable of playing as a snake and navigating the board to find "food."

Sudoku Solver *Java, OpenCV*
Compiled my own Sudoku solving algorithm by researching common solving techniques. Developed into an application capable of scanning and solving puzzles of different sizes.

AWARDS & HONORS

Summa Cum Laude — Rutgers University
Graduated with two degrees with a highest honors distinction.

Dean's List — Rutgers University
Received Dean's List recognition every semester of undergraduate.

Advanced Creative Writing Seminar — Rutgers University
One of five students and five professors selected for prestigious writing workshop with renowned writer and distinguished professor Joyce Carol Oates.