

# MAXIM LAVRENKO

maximus (Github)  
(765) 767-1245 ♦ redundantbirch@gmail.com

## EDUCATION

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### Purdue University

B.S. in Computer Science, Machine Learning Track  
B.S. in Mathematics

Dean's List & Semester Honors

*August 2022 - May 2025*

Major GPA: 4.0/4.0

Major GPA: 4.0/4.0

CGPA: 3.98/4.0

*August 2022 - Present*

## WORK EXPERIENCE

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### Purdue University

*Undergraduate Teaching Assistant for Computer Architecture*

- Facilitated weekly labs, assisting and assessing student projects in CS 25000.
- Provided office hour support and project grading.

January 2024 - Present

### Purdue University

*Undergraduate Teaching Assistant for Foundations of Computer Science*

- Supported students during office hours and in PSO sessions for CS 18200.
- Managed the grading of approximately 400 weekly homework submissions.

January 2024 - Present

## PROJECTS

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### LaTeX Matrix Calculator Website | Flask, numpy, React, Heroku

June - July 2023

- Engineered a web application for LaTeX users to manage matrices and linear algebra operations.
- Provided LaTeX code generation for matrix operations, using Flask and React.
- Deployed on Heroku, optimizing for usability and access (currently inactive due to hosting costs).

### Better Housing Bot | Python, Discord.py, BeautifulSoup

December 2023

- Created a Discord bot to streamline the search for on-campus housing at Purdue University.
- Implemented real-time dorm and apartment availability tracking through web scraping.
- Features included automatic updates, a notification mute function, and on-demand checks.
- Assisted several users in securing convenient on-campus housing, avoiding costlier alternatives.

## EXTRACURRICULAR ACTIVITIES

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### BoilerMake Hackathon X

January 2022

- Developed a pollution trend visualization map using plotly, pandas, and HTML in a 36-hour challenge.

### BoilerMake Hackathon XI

January 2023

- Created a web application for enhanced chat experiences, utilizing React, TypeScript, and Go.

### Problem Solving

August 2023 - Present

- Solved 450+ problems on LeetCode using Python and C++, now focusing on Codeforces for competitive programming.

## TECHNICAL STRENGTHS

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### Programming Languages

Python, C, C++, Java, x86 Assembly

### Web Technologies

HTML5, CSS, React.js

### Version Control

GitHub