

MAXIM LAVRENKO

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EDUCATION

Purdue University B.S. & M.S. in Computer Science, Machine Learning Track B.S. in Mathematics Accelerated 3+1 Program Dean's List & Semester Honors	<i>August 2022 - May 2026</i> GPA: 4.0/4.0 GPA: 4.0/4.0 Overall CGPA: 3.99/4.0 <i>Start Graduate Studies: August 2025</i> <i>August 2022 - Present</i>
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WORK EXPERIENCE

Teaching Assistant <i>Purdue University, Department of Computer Science</i> <ul style="list-style-type: none">· Courses: Algorithms (CS 38100), Data Structures (CS 25100), Computer Architecture (CS 25000), Foundations of Computer Science (CS 18200)· Conducted grading, held office hours, facilitated labs, and led collaborative sessions.· Enhanced student comprehension and provided detailed feedback on assignments.	January 2024 - Present
Community Assistant <i>Purdue University, University Residences</i> <ul style="list-style-type: none">· Worked as a Community Assistant, providing direct customer service and ensuring successful program activities.· Demonstrated reliability, organization, and flexibility while managing various tasks in a fast-paced environment.	May 2024 - August 2024

COURSEWORK

Computer Science	Machine Learning, Statistical Machine Learning, Deep Learning, Natural Language Processing, Advanced Algorithms, Data Structures, Artificial Intelligence
Mathematics	Linear Algebra 1 & 2, Multivariable Calculus, Differential Equations, Probability Theory

PROJECTS

Machine Learning Projects Python, scikit-learn, TensorFlow <ul style="list-style-type: none">· Developed a variety of machine learning models, like kNN, linear regression, decision trees, and neural networks.· Applied models to real-world datasets, such as the Iris dataset and the MNIST dataset.· Utilized scikit-learn and TensorFlow to implement models and evaluate their performance.	August 2022 - Present
LaTeX Matrix Calculator Website Flask, numpy, React, Heroku <ul style="list-style-type: none">· 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).	June - July 2023
Better Housing Bot Python, Discord.py, BeautifulSoup <ul style="list-style-type: none">· 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.	December 2023

INVOLVEMENT

BoilerMake Hackathon X <ul style="list-style-type: none">· Developed a pollution trend visualization map using plotly, pandas, and HTML in a 36-hour challenge.	January 2022
BoilerMake Hackathon XI <ul style="list-style-type: none">· Created a web application for enhanced chat experiences, utilizing React, TypeScript, and Go.	January 2023
Problem Solving <ul style="list-style-type: none">· Solved 600+ problems on LeetCode using Python and C++.	August 2023 - Present

TECHNICAL STRENGTHS

Programming Languages	Python, C++, C, Java, R, SQL
Machine Learning	TensorFlow, scikit-learn, PyTorch, Keras, pandas
Web Technologies	Node.js, React.js, HTML5, CSS
Databases	SQL, PostgreSQL, MongoDB