MAXIM LAVRENKO

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EDUCATION

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

WORK EXPERIENCE

Teaching Assistant January 2024 - Present
Purdue University, Department of Computer Science
· Algorithms (CS 381), Data Structures (CS 251), Computer Architecture (CS 250), Discrete Mathematics (CS 182)
· Conducted grading, held office hours, facilitated labs, and led collaborative sessions.
· Enhanced student comprehension and provided detailed feedback on assignments.

Community Assistant May 2024 - August 2024
Purdue University, University Residences
· 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.

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 August 2022 - Present
· 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.

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.

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).

TECHNICAL STRENGTHS

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