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

- 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.

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).

INVOLVEMENT

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 600+ problems on LeetCode using Python and C++.

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