Stephen Pachucki

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EDUCATION

Stevens Institute of Technology | Hoboken, NJ | Expected May 2025
Bachelor of Science in Computer Science

Coursework: Artificial Intelligence, Deep Learning, Data Structures, Algorithms, Linear Algebra, Statistics, Database Management Systems, Web Programming, Theory of Computation
Activities: Trivia Club President, Improv Club President, *The Stute* Newspaper Puzzle Contributor
Awards: Dean's List, Student Organization Growth Award, Edwin A. Stevens Scholarship, Eagle Scout Award

SKILLS

Programming Languages: Python, JavaScript, Java, Ocaml, SQL, HTML
Technologies: TensorFlow, PyTorch, NumPy, Google Workspace, Microsoft Office Suite

PROFESSIONAL EXPERIENCE

Stevens Institute of Technology, *Discrete Structures Course Assistant* | January 2024 - present
- Leading weekly 2-hour labs with 40+ students to teach computer science fundamentals
- Leading weekly office hours to answer student questions and reinforce computer science concepts
- Grading 100+ assignments per week to aid professor

21st Century Software, *Software Development Intern (seasonal)* | June 2022 - May 2023
- Mapped IBM z/OS System Management Facilities record data using Python to research use of machine learning to detect server outages
- Exported IBM z/OS System Management Facilities record data using ISPF panels for future use in machine learning projects
- Performed quality assurance testing on new products to ensure complete functionality
- Proofread documentation for new products and gave feedback to ensure correctness and clarity

Stevens Institute of Technology Academic Support Center, *Tutor* | March 2022 - December 2022
- Taught students one-on-one in computer science, calculus, and statistics to clarify difficult concepts
- Created lessons and practice questions to prepare students for exams

ACADEMIC PROJECTS

Convolutional Neural Network for Classification of Tomato Plant Disease | Python | November 2023
- Collaborated with a partner to implement a convolutional neural network using Python and TensorFlow that identifies one of ten health conditions of a tomato plant from a color picture of one of its leaves
- Tested with three different hyperparameters in order to optimize the neural network
- Analyzed data to document methods and experiments in an final report with a focus on improvement

K-means Clustering | Python | April 2022
- Implemented K-means clustering algorithm from scratch in Python to group clusters of theoretical data