JONA NAKAI

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LinkedIn | Github | Personal Website

EDUCATION

Northeastern University - Khoury College of Computer Sciences *Boston, MA*
Candidate for a Bachelor of Science in Data Science and Mathematics *September 2021 - December 2025*

- **GPA:** 3.73/4.0
- **Data Science Coursework:** Practical Neural Networks, Machine Learning and Data Mining, Database Design, Information Presentation and Visualization
- **Mathematics Coursework:** Statistics and Stochastic Processes, Calculus 3, Number Theory, Linear Algebra, Matrix Methods in Data Analysis and Machine Learning
- *Pursuing a Minor in Philosophy*

EXPERIENCE

Harvard School of Public Health IT Co-op *Boston, MA*
Field Support Services Intern *July 2024 - December 2024*

- Lead projects and large tasks while utilizing spreadsheets to maintain organization
- Implemented a dynamic spreadsheet to facilitate the IT loaner laptop check in/out process
- Utilized command line, virtual desktops, and many other computer related tools

Peer Tutoring Program at Northeastern University *Boston, MA*
Peer Tutor *June 2022 - May 2024*

- Tutored students in Calculus for Business and Economics (Calculus 1) and Calculus 2

PROJECTS

Artwork Image Classification
Practical Neural Networks

- Built a Convolutional Neural Network (PyTorch) to classify artwork periods from ART500k
- Improved accuracy from 35% to 65% by implementing a custom loss function and weighted sampling

NoteVision
Practical Neural Networks

- Created a pipeline converting handwritten sheet music to digital text/image format (abc notation)
- Trained a YOLO model to crop bars of music
- Utilized CLIP architecture to identify music notes from sheet music

TuxFF.com
A Fantasy Football Website

- Processed and cleaned ~20GB of fantasy football data to visualize on TuxFF.com
- Stored data in a PostgresDB, fetched through a lambda function triggered by an API Gateway on AWS
- Implemented a nearest neighbor algorithm to find similar NFL player comparisons

SKILLS

- Python (pandas, numpy, pytorch, sklearn), SQL, Git, HTML & CSS, AWS, Excel

LEADERSHIP

DREAM Program *Boston, MA*
Treasurer *September 2022 - Present*

- Mentor kids ages 4 to 17 in the local community from underprivileged households
- Track club budget, revenue, and expenses by utilizing spreadsheets
- Created a "College Fund" program where DREAM mentees receive a scholarship upon graduation

Certifications & Development

- **Exam Preparation**: Studying for the first actuarial exam (Exam P)