Jonathan Moon

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Education

- **UNIVERSITY OF PENNSYLVANIA**, Philadelphia, Pennsylvania   **2023-2026**
  - Computer and Information Science Accelerated Master's Engineering program at Penn Engineering

  Relevant Coursework: Introduction to Networks and Protocols (4.0)
- **HAVERFORD COLLEGE**, Ardmore, Pennsylvania   **2021-2025**
  - Computer Science Major
  - GPA/Major GPA: 3.88/3.96
  - Starter on Haverford Men's Varsity Lacrosse Team

  Relevant Coursework: Introduction to Computer Science, Introduction to Data Structures, Introduction to Computing, Calculus II, Discrete Mathematics, Principles of Computing Systems, Data Science, Machine Learning, Analysis of Algorithms

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Skills

- Proficient coding ability in: Java, Python, C/C++, TypeScript, JavaScript, HTML/CSS, LaTeX, UNIX, R
- Frameworks: React, React Native, Firebase, Pandas, NumPy
- Integrated development environments used: IntelliJ, CLion, PyCharm
- Supportive and constructive in a group environment
- Excellent problem solving skills

Projects

- [**Personal Website**](): **jonathan-moon.github.io (**Independent, HTML/CSS)
  - Developed a personal website to display personal achievements as well as coding ability in various website development languages and frameworks.
- **Predicting House Pricing with Linear Regression and Adaboost** (CS360, Python)
  - Implemented and evaluated Linear Regression and Adaboost learning models in predicting housing prices in the Boston area based on features regarding each property. Developed a report comparing the accuracy of each model as well as the weight of each feature in determining price of a given property.
- **Big-Int Data Type** (CS251, C++)
  - Created a numeric data type designed to store large values. Consists of an array that holds 3 digits per index as well as a size attribute which stores the length of the array. Created various methods (i.e. constructors, destructor, toString(), extend(), etc.) and operators (+, =, +=) which require the use of pointers, addresses, memory allocation and deletion, overflow, and other concepts regarding memory.
- **Evaluating a Deep Neural Network** (CS360, Python)
  - Created a Deep and Wide multi-layer perceptron model using TensorFlow libraries. Evaluated training/test accuracies and losses on the Fashion MNIST dataset when using different activation functions and numbers of layers. Also built perceptron models using functional and sequential APIs.
- **WORDLE Recreation** (CS106, Java)
  - Employed a Binary Search Tree and comparison algorithm to create the popular word-guessing game "WORDLE". Randomly generated 4, 5, or 6 letter words from various CSV files based on a user-selected difficulty.
- **What-to-Eat** (Independent, Python)
  - Created a program which takes a user-inputted list of available ingredients and returns a list of potential meals using a comparison algorithm. Utilizes a Food Class with meal time, meal name, and ingredients attributes.

Work Experience

- **Co-Founder, CTO, Developer | AthLink**   **August 2023-Present**
  - Co-founded AthLink- a SaaS networking platform for current and former student athletes- guiding the company's technological direction and ensuring alignment with business objectives
  - Oversee the development process, conceptualizing and developing back-end structure
  - Lead a team of 3 app developers, fostering a culture of continuous learning, collaboration, and high performance
  - Overseeing end-to-end app development process ensuring timely delivery and maintaining high-quality standards
- **Coach | 2 Knights Lacrosse**   **May-August 2021 to 2023**
  - Mentored and coached over 100 elementary and middle school players with an emphasis on building character
  - Established weekly practice plans, schedules, offensive/defensive schemes for three teams
  - Aided in improving the 2028 team national ranking from over #250 to #121 in 2023
- **Co-Founder | Landscaping, Moving, & More**   **2019-Present**
  - Co-Founded a small business that handled manual labor jobs for over 100 local families
  - Managed accounting, scheduling, logistic and financial responsibilities

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Additional Information

- High School Athletics: 4 Year Varsity Starter Men's Lacrosse (2x Captain), 6 years of competitive club lacrosse
- Member of HaverCode: A club that holds workshops to refine CS skills and propose changes to the department at Haverford