CHRISTIAN SUN

2205 Aryness Drive, Vienna, VA 22181

📞 (703) 314-8859 | ✉ chsun@seas.upenn.edu | ⭘ csun87 | in christian-sun

Education

University of Pennsylvania, School of Engineering & Applied Sciences   *Philadelphia, PA*

Bachelor of Science in Engineering in Computer Science | GPA: 3.95/4.0 | ACT: 36/36   *May 2024*

- **Minor:** Mathematics
- **Computer Science Coursework**: Discrete Mathematics, Data Structures & Algorithms, Big Data Analytics, Programming Languages & Techniques
- **Other Coursework**: Multivariable Calculus, Linear Algebra & Differential Equations, Physics (Mechanics), Engineering Electromagnetics

Technical Skills

Languages	Python, Java, HTML & CSS, Javascript, C++, OCaml, SQL, LaTeX
Frameworks	PyTorch, Pandas, Apache Spark, AWS, React, Redux, Node.js, Swing

Experience

Macmillan Learning   *Austin, TX*

Software Engineering Intern   *May 2021 - August 2021*

- Assembled an analytics page and performed full-stack development using React, Redux, Node.js, Javascript, PostgreSQL, and HTML & CSS
- Collaborated in a professional environment with the Agile Scrum methodology

University of Pennsylvania Computer Science Department   *Philadelphia, PA*

Teaching Assistant   *January 2021 - Present*

- Instructed 15+ students during weekly recitations, graded assignments, and held weekly office hours
- Class covered discrete mathematics, such as set theory, combinatorics, probability, graph theory, proof techniques, & more

Johns Hopkins University Applied Physics Laboratory   *Laurel, MD*

Data Science/Machine Learning Intern   *Summers 2018 & 2019*

- Designed agent-based models in Python to investigate the limits and capabilities of current social science modeling techniques
- Built a machine learning model to identify damaged buildings in satellite imagery using Python and the PyTorch deep learning library

Projects

Deposit Predictions

- Performed EDA and feature engineering to predict whether or not targets of a telemarketing campaign would make a deposit at a bank
- Implemented a variety of classification models, including Logistic Regression, Random Forest, XGBoost, K-Nearest Neighbors, Neural Networks, and more

Chess AI

- Engineered a chess AI using the minimax algorithm, and implemented alpha-beta pruning to accelerate move selection
- Programmed the game logic and board GUI in Python using the PyGame library

Extracurricular Activities

Review for Relief   *Online*

Essay Editor   *July 2020 - April 2021*

- Evaluated high school seniors' college application essays to raise over $10,000 for COVID-19 relief charities

Other Skills and Interests

Other Skills	Teamwork, Cooperation, Leadership, Communication, Problem Solving
Interests	Roller Coasters (I have ridden 135 coasters and counting), Music (I play bass clarinet), Keyboards