Eric Sang

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EDUCATION

Vanderbilt University | Nashville, TN　　　　　　　　　　　　　　　　**May 2025**
Bachelor of Science, Computer Science
Bachelor of Arts, Math
Minor: Undergraduate Business
Cumulative GPA: 4.00/4.00
Relevant Coursework: Data Structures, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Algorithms, Digital Systems, Intermediate Software Design, Differential Equations

TECHNICAL SKILLS

Proficient Languages: Java, C++, Python
Familiar Languages: R, HTML, CSS, Bootstrap, JavaScript
Technologies: R Studio, Jupyter Notebook, CLion, Git

EXPERIENCE

Vanderbilt University School of Engineering, Nashville, TN　　　　**August 2022 - May 2023**
CS1101 Grader/TA
- Graded student assignments and exams on a weekly basis
- Held 3 office hours per week to aid students with programming assignments

USDA, Ames, IA　　　　　　　　　　　　　　　　　　　　　　**May 2022 - August 2022**
ORISE Machine Learning & Bioinformatics Intern
- Learned the basics of machine learning and bioinformatics
- Sifted through multiple databases to gather and clean nucleotide sequences
- Fed data into a machine learning algorithm used to identify viruses with the potential to infect swine or cattle

Private Tutoring, Brentwood, TN　　　　　　　　　　　　　　　　**July 2020 - Present**
- Tutored dozens of students in K-12 related subjects, AP classes, and standardized testing
- Fostered unique interpersonal relationships with students, making the learning process more student-tailored

PROJECTS

ML Pipeline to Identify Infecting Swine/Cattle Viruses　　　　　**May 2022-August 2022**
Utilizes Python
- Edited a premade human virus pipeline to accommodate pig and cattle viruses
- The pipeline identifies whether a new, unique virus sequence is likely to infect swine or cattle and is trained with 20,000+ unique sequences pulled from GenBank

Simple Personal Website　　　　　　　　　　　　　　　　　　　　**June 2022**
Utilizes HTML, CSS, JavaScript, and Bootstrap | eric-r-sang.github.io/project00/
- Developed a personal website in about a week
- Equipped with 4 different pages, a working query box, image carousels, media-responsive sizing, and other small design features