Theodore Nguyen

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EDUCATION

University of California, Los Angeles (UCLA) June 2023

B.S. in Applied Mathematics with a Specialization in Computing
Overall GPA: 3.903

Relevant Coursework

Linear Algebra, Probability and Statistics, Applied Numerical Methods, Mathematical Modeling, Linear and Nonlinear Systems of Differential Equations, Introduction to Machine Learning

TECHNICAL SKILLS

Programming Languages – C++, Python, Java, HTML, CSS, JavaScript, PHP, MATLAB, Lua

Markup Languages – LaTeX, Markdown

Developer Tools – Vim, Git

SPECIALIZATIONS AND COURSE CERTIFICATES

Machine Learning Specialization Nov. 2022
Coursera

Supervised Machine Learning: Regression and Classification; Advanced Learning Algorithms; Unsupervised Learning, Recommenders, Reinforcement Learning

PROJECTS

Linear Support Vector Machine (SVM) Math Task Aug. 2022
Python

· Designed an interactive Jupyter notebook with documented code snippets and detailed math explanations to showcase step-by-step production of a linear SVM; accelerated mathematical understanding of 40 students
· Developed 11 Python functions, utilizing NumPy and Matplotlib to display clear data visualizations of the SVM model

Penguins Species (Supervised Machine Learning Classification) June 2021 – Aug. 2021
Python

· Collaborated with a team of 3 students weekly to design a penguin species classification system using scikit-learn, NumPy, Matplotlib, and pandas on a 300+ penguin dataset
· Implemented 2-D machine learning models such as multinomial logistic regression, decision trees, and support vector machines to analyze how physical and geographical features impact penguin species classification

PROFESSIONAL EXPERIENCE

UCLA Academic Advancement Program Sep. 2021 – Present
Computer Programming Peer Learning Facilitator *Los Angeles, CA*

· Lead four 1.5 hour review sessions per week for 30 peers to ask questions and accelerate their C++ programming skills
· Develop clear and coherent semi-weekly handouts, review worksheets, and presentation slides using Pandoc, Markdown, and LaTeX

Juni Learning Aug. 2020 – Aug. 2022
Mathematics Instructor *San Francisco, CA*

· Executed Pre-Algebra, Algebra, and Geometry lesson plans for students ages 8-18, while adapting to student needs and interests
· Communicated with parents on a weekly basis, providing updates on student progress and results from learning assessments in order to foster academic growth
· Maintained records for 8 students, covering multiple courses and skill levels to cater to students' academic understanding of subject material

HONORS & AWARDS

Dean's Honors List 2020 – 2022
· Earned 3.75+ GPA for 7 quarters (Winter '20, Spring '20, Fall '20, Winter '21, Spring '21, Winter '22, Spring '22)

LANGUAGES

English (Native), Vietnamese (Limited Working Proficiency)