Christopher Milan

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education

University of California, Los Angeles, Los Angeles, CA
B.S. in Mathematics of Computation — Sep 2021 – June 2025
GPA: 3.7/4.00

coursework
∗ = in progress

MATH 115AH: Linear Algebra (Honors)
MATH 131AH: Real Analysis (Honors)
MATH 110AH: Abstract Algebra (Honors)
COMSCI 180: Algorithms & Complexity
MATH 61: Discrete Structures
MATH 115B: Linear Algebra (Honors)*
MATH 131BH: Real Analysis (Honors)*
MATH 151AH: Numerical Analysis (Honors)*
MATH 164: Optimization*
MATH 170E: Intro to Probability and Statistics*

experience

UCLA DataRes, Los Angeles, CA
Researcher — September 2022 – present
- Accepted into exclusive research team for Machine Learning.
- First quarter spent exploring Transfomer based models for video human action recognition.
- Working with team of fellow students to explore novel areas in artificial intelligence.

UCLA Sailing Team, Los Angeles, CA
Practice Coordinator — June 2022 – present
- Elected by peers in June 2022 for the 2022-23 school year.
- Coordinating practices with teammates availability and UCLA marina timing.
- Hoping to learn about optimization for resource management and maybe automation of this job.

Verve Therapeutics, Boston, MA
Intern — June 2020 – August 2020
- Researched gene therapy treatments (CRISPR and base editing).
- Examined vectors for gene therapy therapeutics, such as AAV and lipid nanoparticles.
- Learned from CEO and Founder, Sekar Kathiresan, business skills and technical knowledge.

projects

Honda Bluetooth Audio Adapter — July 2022 – August 2022
- Designed schematic to adapt bluetooth audio to proprietary Honda IEBUS audio.
- Used Autodesk EAGLE to design electrical schematic and breadboard.
- Used bluetooth capabilities from Espressif Systems ESP32 microcontroller to communicate I2S signals from Texas Instruments DAC to car radio.
- Reverse engineered proprietary Honda communication standard.

16-bit Breadboard Computer — September 2019 – June 2020
- Designed schematic from scratch using KiCad.
- Designed to use Texas Instruments TTL integrated circuits.
- Built to run on x86-16 Von-Neumann architecture, emulating an Intel 8086 processor.
- Also designed a video co-processor, capable of color VGA output.
- Gained valuable knowledge in low-level computing and bare-metal execution, through compilation, assembly, and machine code.

Raspberry Pi Weather Station — September 2019 – May 2020
- Developed a weather station website that consumes data from the National Weather Service API.
- Used Vue.js for a reactive frontend to display current forecast information and animating an HTML5 Canvas with radar data.
- Used Express.js to design a backend to consume API data, and reformat radar information.
- Aquired skills in Javascript and web development.

languages & technologies

JavaScript, C/C++, Python, Go, Rust, Java, HTML/CSS, Assembly
PyTorch, Vue.js, React.js, Express.js, Git, Jupyter/IPython, Firebase, EAGLE, KiCad, Arduino