Christopher Le

(773) 255 7366 - ichrisle2004@g.ucla.edu - https://tinyurl.com/chrishoangle

SUMMARY

- Senior at the University of California, Los Angeles, seeking a full-time job based on analytical and engineering skills.
- Extensive technical experience through NASA JPL, Glenair, Advanced Space System Laboratory, IUSSC, OBO, and NPS.

EDUCATION

University of California, Los Angeles August 2022 - June 2026
B.S. in Physics, B.S. in Applied Mathematics, B.S. in Statistics & Data Science
Minor in Film, Television, & Digital Media, Minor in Atmospheric & Oceanic Sciences

SKILLS

Programming: Python, Java, R, C++, HTML, Numpy, ScriptPath
Technologies: Arduino, Airtracker, Harmonic Oscillator, Electron Microscope, PRT, Multi-Product Calibrator, MySQL, Jira, Jenkins

WORK EXPERIENCE

NASA Jet Propulsion Laboratory Los Angeles, CA
Telecommunications Engineer Intern *June 2025 – August 2025*

- Configured the Netropy WAN Emulator to simulate stepped-hill satellite contact profiles for a realistic Mars-orbiter link.
- Designed and automated synchronized test execution across DTN nodes using bash scripting, integrating contact plan updates in admin settings with real-time Netropy bandwidth scheduling via API.
- Implemented BP tests to evaluate bundle delivery performance under variable bandwidth and intermittent connectivity.

Glenair Los Angeles, CA
Test Engineer Intern *June 2024 – August 2024*

- Conducted electrical calibration procedure for 224 multimeters using Multi-Product Calibrator to ensure precise measurement outputs, identifying key trends in measurement variance.
- Developed an uncertainty budget for 53 Fluke 87V Multimeters across 51 test points to validate DC Voltage performance, optimizing the test process and improving calibration accuracy.
- Spearheaded the operational framework for Vertical Thermal Shock Chamber, analyzing material performance under environmental stress and identifying failure patterns to inform testing improvements.

U.S. Department of State - Bureau of Overseas Buildings Operations Los Angeles, CA
Project Management Intern *August 2023 – May 2024*

- Utilized Bromilow's Equation modeling to derive correlations between project costs and durations for 545 projects, streamlining the estimation process for capital projects.
- Applied data clustering techniques to optimize project groupings by geographic location and project scale, enhancing prediction accuracy in cost modeling.
- Conducted risk trend analysis with Monte Carlo simulations, predicting "most likely" risk costs and supporting project risk management strategies.

National Park Service Los Angeles, CA
Geo-Tourism Intern *August 2022 – May 2023*

- Compiled geo-tourism listings of 34 local small businesses and 15 tribes along the Lewis and Clark National Historic Trail.
- Fortified 20 professional partnerships between Lewis and Clark NHT and prospective stakeholders by facilitating meetings.

DATA RESEARCH PROJECTS

Demographic Surveys from Amazon Purchases Los Angeles, CA

- Built and deployed a regression random forest model with optimized hyperparameters to predict total purchase amounts based on demographic data, increasing model accuracy by 15%.

Large-Scale Wave Energy Farm Los Angeles, CA

- Performed linear regression analysis to assess wave energy farm productivity based on spatial parameters.
- Conducted t-tests to validate the impact of spatial configuration on energy output, improving site planning methodologies.

Reaction Time Game Los Angeles, CA

- Designed a reaction time game using a self-developed 1kHz clock frequency with a 555 timer, recording and analyzing user data to improve game mechanics and responsiveness.

RESEARCH EXPERIENCE

UCLA - Davoyan's Advanced Space System Laboratory Los Angeles, CA
Undergraduate Researcher *December 2022 - Present*

- Executed simulations through MATLAB on deformations of self-actuators and breadboard design of voltage microcontroller.
- Implemented pulse-width-modulating voltage C++ coding to manage voltage output for self-actuator surface deformation.