

Matthew Duong

(805)-304-2320 | matthew.duong.11@my.csun.edu | [LinkedIn Profile](#) | [Github Page](#)

EDUCATION

California State University Northridge

Bachelor of Arts in Computer Science

Northridge, CA

Aug. 2019 – December 2023

EXPERIENCE

Education Office Intern: Division 32 (Planetary Science)

NASA Jet Propulsion Laboratory

August 2022 – Present

La Canada Flintridge, CA

- Worked as the lead software developer specializing in interfacing and automating data acquisition instruments
- Co-wrote a paper with mentors Dr. Robert Anderson and Dr. Keith Chin by providing data plots and experiment notes
- Engaged in extra learning opportunities facilitated by mentors from JPL and Ames, acquiring additional beginner level skills in electronics and geology (note to self: probably get rid of this or at least shorten)
- Participated in networking events (talking to jpl veterans: get career advice, personal experience stories... FIX LATER)
-

Office Student Assistant: Department of Faculty Affairs

California State University Northridge

Aug 2019 – May 2023

Northridge, CA

- Worked as a receptionist to re-direct calls and/or answer faculty related questions
- Managed the office main email, helped organize faculty events, and delivered packages

PROJECTS

SPARTA-Soil Properties Assessment Resistance and Thermal Analysis | *Python*

Aug 2022 – Present

- Implemented Python software to interface with data acquisition instruments from Ivium Technologies and National Instruments (note to self: already kinda mentioned before, might be redundant)
- Deployed automated data acquisition software within a zero-gravity *Blue Origin* flight payload
- Assisted in building a data collecting test bench using a load cell, torque sensor, and dielectric spectrometer
- Conducted field experiments using Lunar and Martian soil samples (note to self probably get rid of this)

SwiftCheck - Online Medical Checkup - Senior Design | *Jira, HTML, CSS*

Aug 2022 – May 2023

- With five senior Computer Science students, built a website for users to interact with a 3D human model, answer medical probing questions, and get a possible diagnosis
- Took the role of project manager to oversee teammates' duties, task organization, meeting schedules, and oral presentations
- Project demo and oral presentation won the CSUN Senior Design Showcase Oral Presentation in Spring 2023

Multimedia System Design - Marks Automation Script | *Python, MongoDB*

Jan 2023 – May 2023

- Built an automation script using Python, that automates 4 manual media related positions
- Python code reads proprietary data from Baselight and Flame machines to calculate file system locations of frames in a project's media/video file
- All requests saved to MongoDB database and can used for data analysis and improve worker efficiency
- Exports as CSV or XLS files with video's time-code and thumbnail preview that can uploaded to Frame.IO and/or Shotgrid

AWARDS

CSUN Spring 2023 Senior Design Showcase - Oral Presentation Winner

May 2023

- Competed against 12 teams/projects within the Computer Science department

CSUN Fall 2020 Dean's List - College of Engineering and Computer Science

December 2020

- Among 923 of 4426 undergraduate students

TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS

Developer Tools: Github, Jira, Visual Studio Code, Google Colaboratory

Libraries: argparse, Matplotlib, NI-DAQmx, pandas, pyvium, Tkinter