Shirley An-Khue Thi Nguyen

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Education

B.S. Mathematics of Computation **06/2021 – 06/2023 (Expected)**
University of California, Los Angeles (UCLA)

A.S. Mathematics **09/2019 – 05/2021**
Sacramento City College (Los Rios Community College District)

Experience

Software/IT Intern **05/23/2022 – 09/01/2022**
Lockheed Martin | Sacramento, CA
40 hours per week
Responsibilities:

- Developed enterprise robotics process automations
- Wrote SQL queries to pull Blue Prism exceptions and queue data
- Transformed data for analysis and visualization
- Visualized metrics as live scalable Tableau dashboards

Test Engineering Intern **05/24/2021 – 12/06/2021**
M1 Finance | Sacramento, CA
40 hours per week (05/24/2021 – 08/24/2021)
20 hours per week (08/24/2021 – 12/06/2021)
Description:

- Full-time internship was extended to a part-time internship during the Fall 2021 quarter

Responsibilities:

- Collaborated with the intern team to design a new feature for the web and mobile apps
- Executed manual test plans across the web and mobile apps before shipping the feature
- Built first complete automated web E2E test suite with Gherkin, Cucumber, and Playwright for a feature with heavy user interaction
- Developed proof of concept for reducing test flakiness and improving screen reader accessibility
- Wrote contract and web integration tests for user onboarding

Mathematics and Statistics Tutor **01/05/2021 – 08/01/2021**
Los Rios Community College District | Sacramento, CA
15 hours per week
Responsibilities:

- Served as an embedded tutor in a statistics course, which included creating supplemental course materials, holding office hours, and assisting students during class
- Assisted peers as a Sacramento City College Math Lab tutor with physics, math, and statistics questions by drop-in
- Participated in the pilot Los Rios district-wide tutoring program as a math and statistics tutor by drop-in and appointment, and mentored other tutors in the program

Projects

Landslide Fatality Prediction Research **11/01/2021 – 12/15/2021**

University of California, Los Angeles | Los Angeles, CA

15 hours per week

Description:

- Identified a problem that can be addressed with machine learning as part of coursework
- Examined and compiled landslide occurrence data with Python libraries
- Developed and evaluated regression machine learning models to predict landslide fatalities using SciKit-Learn
- Published article on Medium to document results

Student Project Manager & Lead Innovator **09/01/2020 – 11/01/2020**

NASA L'SPACE Proposal Writing and Evaluation Experience | Sacramento, CA

30 hours per week

Description:

- Participated in the NASA Lucy mission's funding call, which included placements into teams of 10-15 students and NASA professionals, training in proposal writing, and submitting a new technology proposal for funding consideration

Responsibilities:

- Developed the closed chemical loop that became the proposed lunar power generator
- Delegated tasks according to team member's strengths
- Proofread and submitted the proposal for the generator, which achieved finalist consideration for funding out of 50 teams
- Submitted a NASA new technology report for the concept

Student Lead Scientist **05/01/2020 – 08/01/2020**

NASA L'SPACE Mission Concept Academy | Sacramento, CA

30 hours per week

Description:

- Participated in the NASA Lucy mission's academy, which included placement into teams of 10-15 students, access to presentations by NASA guest speakers, training in designing space missions and writing preliminary design reviews, and presentation of the mission to NASA professionals

Responsibilities:

- Researched and developed scientific goals as the lead scientist, which were to determine if microbial life existed on Mars by analyzing subsurface methane isotopic ratios
- Identified target sites on Mars using GIS tools
- Assisted the engineering team in developing optic and mobility systems for the rover
- Assisted the administration team in developing a budget for the mission
- Received positive feedback on the preliminary design review