

Shirley A. Nguyen

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OBJECTIVE

Team-oriented student with engineering and software background pursuing a career in automation and/or machine learning. Interested in aerospace, robotics, finance, and defense.

EDUCATION

Bachelor of Science in Mathematics of Computation | UCLA Expected Jun 2023

EXPERIENCE

Software/IT Intern | Lockheed Martin May 2022 – Sept 2022

- Supported the robotics process automation platform team
- Wrote SQL query to pull and process Blue Prism queue data for analysis and visualization
- Visualized robotic process automation exceptions and queue metrics as live scalable Tableau dashboards

Test Automation Engineering Intern | M1 Finance May 2021 – Dec 2021

- Built first full automated web E2E test suite with Gherkin, Cucumber, and Playwright
- Developed proof of concept for reducing test flakiness and improving screen reader accessibility
- Wrote contract tests and user onboarding integration tests

Mathematics and Statistics Tutor | Los Rios Community College District Jan 2021 – Aug 2021

- Assisted students by drop-in with physics, statistics, and mathematics courses
- Supplemented student learning as an embedded tutor in a statistics course

PROJECTS

Landslide Fatality Prediction Using Machine Learning | UCLA Nov 2021 – Dec 2021

Individual Coursework Project

- Designed project and reached random forest regression solution using Python and SciKit-Learn

Robot Evolution Experiment | Sacramento City College Apr 2021 – May 2021

Individual Coursework Project

- Simulated evolution in a population of robots using C++ with varying environmental factors

Lunar Closed-Loop Chemical Power Generator | NASA L'SPACE NPWEE Sept 2020 – Nov 2020

Project Manager & First Innovator

- Facilitated collaboration between a team of students, NASA engineers, and academic researchers
- Designed the closed-loop and drafted process flow diagrams
- Analyzed the need for the technology, technical challenges, success criteria, and metrics
- Researched chemical reactions, functional materials, and energy conversion and generation methods
- Attained finalist proposal recognition for funding from the NASA Proposal Writing & Evaluation Experience

The Mars Methane Surveyor | NASA L'SPACE MCA May 2020 – July 2020

Student Lead Scientist & Payload Systems Engineer

- Collaborated with a student team to design a Mars mission in the form of a preliminary design review
- Managed the science sub-team's process in identifying science goals for the mission
- Devised a low-cost method to determine if Martian life existed through data collection and analysis of subsurface methane isotopic ratios
- Designed rover optic and mobility systems according to the Martian environment

COMMUNITY INVOLVEMENT

Lead Visual Media Specialist | Los Rios Community College District ACM Chapter Sept 2020 – Aug 2021

MESA Ambassador | Sacramento City College Sept 2019 – May 2021

ADDITIONAL

Languages/Frameworks: C++, Java, JavaScript, Python, R, SciKitLearn, SQL, GraphQL, Playwright, Cucumber

Software: Adobe Photoshop, InDesign, & Premiere, JMARS (GIS), Autodesk Inventor, Tableau, BluePrism

Achievements: Lockheed Martin STEM Scholar, NASA New Technology Report, AWS Cloud Practitioner Certification

Other Skills: project management, proposal writing, graphic design, digital art, video production, building/repairing PCs