

# Parisa Hariri

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## EDUCATION

### University of San Diego Shiley-Marcos School of Engineering

*B.S in Computer Science*

- **Honors:** Dean's List

Expected Graduation: May 2026

**GPA: 3.52**

### J.F. Oberlin Shinjuku University Tokyo Japan Study Abroad Program

**January 2024**

### Washington State University Honors College

*B.S in Software Engineering*

- **Honors:** Dean's List, WSU Regents Academic Scholar, WSU Top Scholar

Transferred: May 2023

**GPA: 3.7**

## SKILLS

**Relevant Coursework:** Data Structures, Computer Systems, Research Methods, Programming Abstractions & Methodologies, Introduction to AI, Data Science, Negotiation in Global Business, Organic Chemistry, Algorithms, OOP Software Design

**Programming Skills:** Python, Java, C, HTML/CSS, JavaScript

**Technical Software:** Microsoft VS, VS Code, Linux, Microsoft Excel, Biopac, GitLab, Vizard, SightLab, DBeaver

**Languages:** English, Farsi/Persian (Proficiency: Fluent)

## RESEARCH AND CODING PROJECTS

### USD Department of Neuroscience | *Software Research Assistant*

**June 2024 – Present**

- Designed a grant-funded interdisciplinary virtual reality project, supported by the Prebys Foundation, simulating a TSP (Traveling Salesman Problem) using Python, Vizard7, and SightLab software. Tested the effects of lesions in the medial entorhinal cortex on performance in spatial cognition.
- Developed scripts to simulate complex environments and track participant behavior. Developed a database system and conducted data analysis. Collaborated with an interdisciplinary team.
- Submitted abstract and was accepted to present research poster at the Society for Neuroscience National Conference in Chicago, IL receiving positive feedback on research design and outcomes.

### Robot Cars Search and Rescue Research | *Undergraduate Researcher*

**October 2024 – Present**

- Collaborated with an Electrical Engineering professor and a research team of four on a project involving five Pololu robot cars equipped with Raspberry Pi for a search and rescue simulation.
- Designed Python programs utilizing Dijkstra's algorithm and Markov chains to simulate and coordinate the movement of robot cars in a grid-based search and rescue scenario, optimizing line-following and probability-based pathfinding.
- Implemented Bluetooth communication for inter-car signaling to detect signs of human presence.

### UAV Research | *Undergraduate Researcher*

**August 2024 – Present**

- Collaborated with an Electrical Engineering professor and a research team of four to design and program embedded software in Python for a 10-drone fleet to autonomously spell custom messages.
- Strategically planned and conducted a comprehensive analysis of prior research and drone capabilities to adapt scripts from the virtual machine for optimal coordination.

### Disaster Readiness Program | *Student Developer*

**March 2024**

- Collaborated with a team of two to develop and test Python programs for doctor-patient scheduling and disaster planning in emergency scenarios.
- Implemented a scheduling system using a time-based allocation strategy to efficiently match doctors to patients based on available hours, ensuring all patients were assigned without exceeding doctors' working capacity.
- Applied object-oriented programming, data structures, algorithm design, and unit testing with PyTest to create scalable solutions.

## PROFESSIONAL EXPERIENCE

### Kappa Delta-Sigma Tau | *Vice President-Finance*

**November 2022 – February 2023**

- Created a 12-month budget strategy for a \$72,000 cash revenue organization to meet deadlines set by the Executive Board.
- Implemented the chapter's budget and handled payment of all chapter bills and reimbursements promptly. Enabled the development of cost/benefit analysis and held members accountable for member payments—managed collection of revenue.
- Administered BillHighway and APE.

### The Davani Group | *Project Manager Intern*

**December 2023 – January 2024**

- Assisted Senior Project Manager in collaborating with web developers and designers to create a user-friendly online store. Established relationships with manufacturers, ensuring alignment with quality standards.
- Implemented data entry for reports and data analysis.

### Dr. Kris at NOVA Family Dental | *Dental Assistant*

**Summer 2022**

- Observed and assisted in clinical procedures and patient care. Discussed treatment plans with the dentist, observing how patient needs are balanced to provide optimal care.

## LEADERSHIP EXPERIENCE

### Society of Women Engineers (SWE) | *Member*

**Fall 2022-Present**

### Kappa Delta Sorority | *Member, VP-Finance, & Ritual Committee Planner*

**Fall 2021-Present**

### Society for Neuroscience (SFN) | *Member*

**August 2024-Present**