Anita Jalili-Kalhori

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Education

California State University, Northridge May 2026
Bachelor's of Science in Computer Science *Dean's honor roll, GPA 3.9*

Skills

Python, C++, Java, JavaScript, TypeScript, HTML/CSS, React, Node.js, MongoDB, SQL, PyTorch, TensorFlow, scikit-learn, Optuna, OpenCV, ROS, YOLOv8, MATLAB, Git/GitHub, Unity (C#), Agile/Scrum

Experience

Data Science & Cybersecurity Intern Summer 2026
Naval Information Warfare Systems Command (NAVWAR)
- Selected for the NAVWAR HBCU/MI dual-phase internship program funded by the Department of the Navy to work on mission-critical cybersecurity and data science initiatives.

Cyber-Physical Power Systems Cyber-Security Intern Fall 2025
National Science Foundation
- Selected as funded research fellow to conduct research at the intersection of AI, convex optimization, cybersecurity, and smart power systems.
- Conducting research prototypes leveraging machine learning and optimization aimed at improving grid reliability by 20–30% efficiency.

Drone Research & Development Intern Fall 2025
From Zero
- Designed and assembled a custom drone from scratch, integrating Raspberry Pi as the onboard processor and implementing Python-based control pipelines.
- Developed and tested drone capabilities for payload delivery, swarm coordination, and augmented reality visualization using Unity to extend a game engine into a real-world drone controller.

CNN Autonomous Driving Research Intern Summer 2025
SFS2
- Developed MLPs, CNNs, and PyTorch-based binary classifiers with data augmentation, dropout regularization, performance tracking, and Optuna tuning
- Implemented YOLOv8 transfer learning on a custom dataset and achieved 90% detection accuracy, enabling reliable obstacle classification in limited-data settings.

Founder & President, Society of Software Engineers 2024–2025
SOSE
- Founded CSUN's largest computer science organization with 400+ active members, fostering collaboration between students, alumni, and industry.
- Planned and executed hackathons (60+ participants), "Meet the Devs" networking dinners, LeetCode sessions, and resume workshops connecting top CSUN tech talent with employers.
- Partnered with faculty and recruiters to promote student success, internship readiness, and inclusive professional development in CECS

Projects

SONR Obstacle Detection for Vision Impaired | *Python, ROS, YOLOv5, IoT*
- Developed prototype robotics platform (SONR) enabling real-time communication and obstacle detection for my senior capstone project
- Integrated YOLOv5 object detection pipeline with ROS and TTS for autonomous navigation and achieved 92% detection accuracy on campus test videos

MLB Pitcher Anomaly Detection | *Python, PyTorch, pandas, scikit-learn*
- Trained a Temporal CNN autoencoder on Statcast data to flag abnormal velocity, spin, and release trends using EMA smoothing and robust z-scores.
- Delivered a reproducible CLI pipeline (train/score split by date, pitch-type one-hot, One-Cycle LR) that outputs CSVs and timeline plots for coach/scout review.