

Kiarash Hesampour

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SUMMARY

Computer Science graduate specialized in software development and embedded systems. Strong foundation in engineering design and adept in the practical application of computer science principles to solve problems. Committed to leveraging technical expertise in collaborative settings to develop innovative software solutions, Eager to contribute to cutting-edge projects in technology and software engineering.

EDUCATION

University of Southern California (USC)	Los Angeles, CA
▪ Master of Science, Computer Science	Spring 2025 –
California State University Northridge (CSUN)	Northridge, CA
▪ B.S. in Computer Science	Feb 2022 – May 2024
• Relevant Coursework: Machine Learning, Algorithm Design, Database Design, Software Engineering, Regular and Advanced web engineering, Data Structure, Embedded Applications, Human-computer interaction, Computer Architecture and Assembly, Computer organization, Operating System	
General Assembly Software Engineering Immersive	Santa Monica, CA
▪ Full stack Software Engineering Certificate	Oct 2019 – Jan 2020
Pierce College	Los Angeles, CA
▪ Computer Science Associate Degree	Oct 2018 – Jan 2022

PROJECT EXPERIENCE

SAE Aeronautics Senior Design Project (Avionics) - CSUN	June 2023 - Present
• Data and Target Acquisition: Utilized machine learning models for image processing and classification (YOLOv8)	
• GPS calculation of the Target based on the plane's coordinates, heading angle, pitch, and roll	
• Ground Station Implementation: Developed and maintained the ground station for live telemetry data and full control over the plane's components (flight controller, Companion Computer, Payload release servo) using the MAVLink protocol and pyMavlink Python library.	
• Primary Ground Station Controller: Led the operation and monitoring of the ground station during all flight tests and competition, ensuring optimal functionality and performance.	
- CSUNPosium Awarded for the best 10-minute presentation for Data and Target Acquisition for a RC Plane	
Software and Web Applications	Nov 2018 - Present
• Full stack REACT application using MongoDB as Database and Cloudinary for Image Storage with built in functionality for user creation	
• Full stack Express-NodeJS Application with implemented Google Authentication for user creation and MongoDB Database	
• Multiple HTML-CSS-JS based games and Applications such as Minesweeper.	
• Full stack Angular-DotNET Application with Microsoft SQL for the Database.	
• Full stack Django-python-MySQL Application	

WORK EXPERIENCE

Management for Trucking Company (Family Business)	Woodland Hills, CA
Eksin Transportation Inc – interstate trucking Business	December 2022 – Present
Freelance	Woodland Hills, CA
website management and design	Feb 2020 -Present

Skills

Hard Skills: Python | Java | C | C# | C++ | JavaScript | HTML | CSS | Angular | NodeJs | .NET | Django | jQuery | Express | tkinter | Microsoft 365 | Arduino IDE | MAVLink | Mission Planner | YOLO | PyTorch | Google Auth | SQL | MongoDB | Visual Studio Code | Visual Studio | MIPS | ARM | Cloudinary.

Soft Skills: Team Management | Teamwork | Problem Solving | Work Ethic | Adaptability | Leadership | Bilingual (English-Farsi)