# Kiarash Hesampour

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## SUMMARY

Upcoming 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

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*California State University Northridge (CSUN)*                                                  *Northridge, CA*
B.S. in Computer Science                                                                          Feb 2022 - Present
Current GPA: 3.5

- **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

## PROJECT EXPERIENCE

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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)