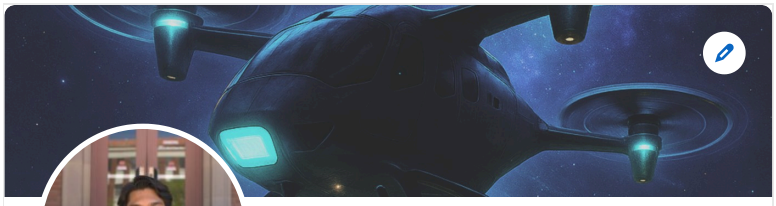

Harsha Jaiganesh He/Him

Incoming M.S. Systems Architecting & Engineering @ USC | Systems Engineering | eVTOLs | Robotics | Automation | AI Engineer

- University of Arizona

Tucson, Arizona, United States · Contact info

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About

Hi! I'm Harsha Jaiganesh, a recent graduate from the University of Arizona with a B.S. in Systems Engineering and a minor in Electrical and Computer Engineering. My passion lies at the intersection of autonomy, robotics, artificial intelligence, and intelligent systems — especially in the development of autonomous vehicles and eVTOL technologies.

In addition to my background in systems design, real-time control, and human-centered engineering, I bring strong experience as an AI Engineer. I'm proficient in Retrieval-Augmented Generation (RAG), Huggingface Transformers & Pipelines, LangChain, agentic AI workflows, multi-modal context processing (MCP), prompt engineering, and vector databases. I've developed intelligent agents and tools that utilize the latest advancements in generative AI to tackle complex real-world problems.

I'm currently seeking opportunities to contribute to cutting-edge innovation in aerospace, robotics, AI-driven systems, or intelligent transportation networks. I'm especially motivated by the challenge of designing scalable, safe, and efficient autonomous platforms that advance the future of mobility and intelligent infrastructure.

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Model Context Protocol (MCP): A New Design Pattern for Enterprise AI?

Model Context Protocol (MCP) is emerging as a powerful approach for integrating LLMs into real-world enterprise systems. What makes it exciting is how it enables large language models to work in tandem with existing business logic, unlocking use cases that weren't previously possible. Rather than rebuilding from scratch, MCP helps extend the value of current applications by making them context-aware and AI-capable.

This has the potential to significantly amplify the ROI on custom enterprise systems that ...more

3

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Incoming M.S. Sy
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Self-Hosted LLMs for th
Source the Path to Comp

As enterprises embrace
concerns around data pr
compliance, and vendor
than ever. What if you co
Language Models entire
perimeter—retaining con
external data expos
operations? My latest PO
by deploying open sourc
and Code Llama on GCP
a security-first architect
and Private Service Con

2

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Experience

Design Engineer
Lumivici · Internship
Aug 2024 - May 2025 · 10 mos
Tucson, Arizona, United States · On-site

- Led the development of a fully enclosed, self-sterilizing face shield equipped with far-UVC lights for automated pathogen inactivation and air sterilization.
- Used LightTools to simulate UV light paths and reposition the lamps, raising inside coverage from 72 % to over 95 %.
- Leveraged SolidWorks and AutoCAD to produce detailed product designs and functional prototypes.
- Led verification & validation of the technical data package, building requirement-traceability matrices, and overseeing final system-integration tests.
- Collaborated with Dr. Charles P. Gerba at the University of Arizona's WEST Center to conduct controlled aerosol-virus tests, iterating UV-C cycles until achieving ≥4-log (99.99 %) viral reduction under clinical airflow conditions.

Computer-Aided Design (CAD), 3D Printing and +6 skills

Undergraduate Research Assistant
University of Arizona · Internship
Aug 2021 - Apr 2022 · 9 mos
United States

Working on a "High-Speed Spinal Stimulation" project in Phillip Gutruf's lab to create devices that can alleviate chronic pain. Mainly focused on...

Marketing Executive
GameDevs Anonymous · Part-time
Jan 2018 - Feb 2019 · 1 yr 2 mos
United States

I led the marketing team for an Indie game start-up company. Ran various campaigns and advertisements to market new products on...

Education

University of Arizona
Bachelor of Science - BS, Systems Engineering
May 2025

Heritage High School

Projects

Intelligent Traffic Management System (ITMS)

- Designed an Intelligent Traffic Management System (ITMS) to enhance urban traffic flow and road safety using real-time data and predictive analytics.
- Conducted stakeholder analysis and gathered requirements from city municipalities, emergency services, and commuters to align system functionalities with diverse needs.
- Performed trade studies to evaluate and select optimal data acquisition sensors and traffic analysis software, balancing performance, cost, and scalability.
- Created detailed use cases and system requirements, guiding the implementation of the ITMS's core features.

Systems Engineering Process and Stakeholder Analysis

Social Media Management System

- Conducted interviews and feedback sessions with content creators to capture pain points and feature requests, converting their insights into concrete system requirements.
- Authored a System Combined Requirements & Design Document (SCRD) with supporting UML use-case, sequence, and class diagrams to map user workflows and data interactions.
- Defined a cloud-ready microservice architecture with role-based access controls, addressing scalability and security from the outset.

Unified Modeling Language (UML), Visual Paradigm and +1 skill

Skills

Enterprise Architecture

Social Media Management System

Unified Modeling Language (UML)

Social Media Management System

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Courses

Flying Car and Autonomous Flight Engineer Nanodegree Program - [Udacity]

Python for Everyone - [Courseera]

Interests

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Rami Rahim · 3rd
President and GM, HPE Networking
65,461 followers

✓ Following

Profile language

English

Public profile & URL

www.linkedin.com/in/harsha-jaiganesh

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Andrew Kwolek · 2nd
Systems Engineering student interested in the Space Industry

Message

Nyhel Sekulic · 1st
Systems and Aerospace Engineer

Message

Miguel Jonathan Ayala · 2nd
PhD Candidate, Mechanical Engineering

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John Garofalo · 3rd
Electrical Engineering | Systems | Project Development | Global Optimization

+ Follow

Steven Truong · 2nd
Junior AI Software Engineer

Connect

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Seth Rojas
CS @ UArizona, Honors College | Flinn Scholar | HSF Scholar | HHF Scholar

Connect

Shri Pooja Challagulla
AI intern| CS@University of Arizona'26

Connect

Deeksha Reddy
Student at University of Arizona

Connect

max boving
Data Science Student at University of Arizona | Minoring in Business Administration | Data Science/ Engineering background turned Full-Sta...

Connect

Jake Balla
Graduate CS Student at the University of Arizona

Connect

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