

# GAREGIN MAZMANYAN

424-335-7478 | gmazmanyman@arizona.edu | [LinkedIn](#) | [GitHub](#) | [gareginmazmanyman.com](#) | Tucson, 85716

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## EDUCATION

University of Arizona, Tucson, AZ

Master's in Computer Science

08/2024 - 05/2026

Bachelor's in Computer Science, Minor in SIE

08/2022 - 05/2025

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## SKILLS

Python | C/C++ | scikit-learn | TensorFlow | PyTorch | NumPy | Reinforcement Learning | Deep Learning | NLP | Computer Vision | OpenCV | ROS2 | MAVROS | Gazebo | RViz | TF2 | SLAM | Git | Linux | Docker | AWS | CI/CD | Vicon

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## ACHIEVEMENTS

- Won the Amazon Tech Runner-Up Award (AWS Challenge) in the **Hack Arizona** Hackathon (over 150 teams)
  - Advanced to Round 3 of **TCS CodeVita** Hackathon (over 444,000 participants)
  - Secured \$7,000 in grants and participated in the **NSF I-Corps National** and Forge Startup Residency programs
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## PROFESSIONAL EXPERIENCE

AEYESAFE - Seattle, WA

Junior Software Engineer Intern (Remote)

10/2024 - 01/2025

- Deployed scalable AWS infrastructure with ECS, Fargate, SQS, and DynamoDB, cutting compute costs via autoscaling
- Reduced deployment time by 50% with automated CI/CD using Docker and YAML
- Built secure serverless APIs with AWS Lambda and API Gateway, using JWT auth for real-time vision analytics

University of Arizona - Computer Science Department - Tucson, AZ

Teaching Assistant & Course Coordinator

08/2023 - 12/2024

- Built a real-time coding platform for CSC110 students, now integrated into the curriculum - [csc110-coding-platform.com](#)
  - Coordinated curriculum for 300+ students to ensure consistent instruction across sections
  - Led lab sessions with real-world coding challenges to reinforce course concepts
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## RESEARCH

University of Arizona - Engineering Robotics Lab - Tucson, AZ

Research Assistant, CrazySwarm Project

02/2025 - Present

- Programmed autonomous control for 10+ Crazyflie drones using ROS2 and CrazySwarm2 for synchronized flight
  - Built swarm algorithms and mission planning logic for real-time multi-agent coordination
  - Simulated trajectories in Gazebo and visualized paths in RViz
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## PROJECTS

D2L Plus AI Assistant

Flutter, AWS Bedrock, AWS Cognito, Lambda, DynamoDB, LangChain, REST APIs

- Built a mobile AI assistant using AWS Bedrock and LangChain to provide personalized support in the D2L learning system through secure, real-time context-aware data pipelines

AI Glucose

Python, TensorFlow, scikit-learn, EfficientNet, OCR, LSTM

- Created a deep learning app predicting blood sugar spikes from meal images using CNN and LSTM models, reducing prediction error by 20% to support diabetic dietary choices

Named Entity Recognition System with Multi-Architecture Approach

Python, PyTorch, Transformers, HMM, LSTM, BERT, NLP

- Developed a modular NER system using LSTM, BERT, and HMM, with support for discontinuous entities, efficient sequence handling, and end-to-end pipelines, achieving 15% improvement in cross-domain performance