Anirud Kashyap

U.S. Citizen | 512-952-8087 | anirudkash@gmail.com | github.com/anirudkash

EDUCATION

University of Texas at Austin — Austin, TX
Master of Science in Computer Science — *2025 – 2027*
- Incoming graduate student starting in Fall 2025

University of Maryland — College Park, MD
Bachelor of Science in Computer Science — *Aug. 2021 – May 2025*
- **GPA:** 3.701
- **Related Coursework:** Data Structures/Algorithms, Computer Vision, ML, AI, Data Science, Web Development, Computer Architecture, Compilers, Cryptography

EXPERIENCE

Software Engineer Intern — June 2024 – Aug. 2024
U.S. Army Research Lab DEVCOM — *Middle River, MD*
- Developed and trained a domain-adapted generative adversarial network for semantic segmentation, achieving 96% accuracy
- Implemented a Triple-strip attention model for natural disaster image classification
- Created a custom pipeline using ROS to run models locally on a UGV Warthog

PROJECTS

LambdaCraft | *Racket, Assembly, C*
- Developed a compiler for LambdaCraft, a custom, dynamically typed version of OCaml, featuring rest arguments functionality and multi-arity functions

AI-Powered Image Analysis Chrome Extension | *Javascript, React, HTML5, CSS, Redux, Jest*
- Built a Chrome extension that integrates Google Gemini to deliver AI-powered responses based on user input and images

Panoramic Images | *Python, OpenCV, Numpy*
- Developed a pipeline to stitch multiple images together, creating one seamless panoramic image
- Utilized RANSAC to estimate homography matrices to perform the image warping

Face Recognition | *OpenCV, Numpy, Python*
- Developed a facial recognition algorithm using Principal Component Analysis (PCA) that reduced image dimensionality by 40% while maintaining 95% accuracy

Online Python Interpreter | *Flask, Python, Javascript, React, MongoDB*
- Developed a full stack web application featuring a code editor and Python interpreter that allows users to write and execute code in a sandbox environment

TECHNICAL SKILLS

Programming: Python, C, C#, Assembly, CUDA, OCAML, Rust, SQL, PostgreSQL Java, JavaScript, QGIS, ROS, R, MATLAB
Technologies Tools: Tensorflow, Keras, scikit-learn, pandas, MATLAB, REST, Docker, Git, Unix, Agile
Frameworks: Node.js, React, Angular, TypeSript, MongoDB, Express, Flask, Selenium