

# Malay Agarwal

Arlington, VA | TS/SCI with Polygraph

Software engineer finding enjoyment with full stack, embedded programming, and creating tools that matter.

## Work Experience

Solutions Engineer | **C3.ai** | February 2025 – Present

- Interfaced directly with clients to work on generative AI solutions and implementation.

Army Cyber Officer | **91<sup>st</sup> Cyber Brigade** | May 2023 – Present

- Led technical planning and mission preparation for a 20-person cyber team, developing repeatable processes that increased readiness before mission mobilization.
- Managed cross-functional team through complex technical training events, coordinating between intelligence, cyber, and operations personnel.
- Assisted with Battalion-level operations and training, presenting regularly to higher leadership in the S3 shop.

Software Engineer | **Booz Allen Hamilton** | May 2024 – February 2025

Junior Software Engineer | June 2023 – May 2024

- Led technical architecture and development of greenfield Air Force modeling & simulation platform from concept to first customer deployment, building a no-code environment that reduced mission planning time from weeks to hours.
- Spearheaded technical architecture decisions that accelerated development velocity, including implementing strict linting and type safety, establishing microservice patterns, and creating shared infrastructure-as-code templates.
- Built trusted relationships with stakeholders through clear technical communications, leading to successful capability demonstrations and program milestone approvals.

Research Intern | **NASA** | July 2022 – August 2022

- Collaborated on a pivotal project involving UAV operations in the Aleutian Islands, providing critical support to NOAA for marine life monitoring through aerial imaging and scanning.
- Developed system to monitor historic ship data in area of operations and signify trends to aid UAS/UAV missions.
- Addressed and resolved icing challenges during flight, demonstrating problem-solving acumen and technical expertise in adverse conditions.

## Additional Projects

Algorithmic Trading Systems | March 2020 – August 2022

- Live traded autonomously on stock and crypto markets using Python, Go, and Docker handling over 1000 transactions daily.
- Optimized buy/sell signals based on mathematical indicators and strategies
- Efficiently processed large data and backtested for accurate results
- Maintained secure and clean code practices for collaboration

## Education

Penn State University | July 2019 – May 2023

B.S. in Computer Science and commissioned as a 2LT in the Army

malayagarwal@outlook.com  
603.289.7501  
github.com/MalayCreates  
[malayagarwal.me](mailto:malayagarwal.me)

## Skills

### Programming Languages

Python, Go, C, TypeScript,  
JavaScript, React, SQL, Rust

### Tools

Docker, Git, Linux, Digital Ocean

## Interests

Powerlifting, running, skiing, video games, vim enthusiast

## Current Learning

Learning how to use Rust as a systems programming language by creating containers and a shell from scratch