

# Faith Chung

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## WORK EXPERIENCE

### Lockheed Martin Space

*AI & Machine Learning Engineer Sr.*

**May 2021 – Present**

*Denver, CO*

- Led AI research in physics informed neural networks to model heat transfer across various spacecraft for Digital Twin Simulations
- Developed a pydantic AI Framework to develop, experiment, and deploy ML models in a pipeline, utilizing Docker, KubeFlow, LakeFS, and AimStack
- Led MLOps efforts to utilize High Performance Computing for training and deploying models, using NVIDIA Tesla GPU clusters, Horovod and PyTorch for distributed deep learning, Docker Images, and the PBS job scheduler

### Lockheed Martin Missiles and Fire Control

*Software Engineering Leadership Program (ELDP)*

**June 2019 – April 2021**

*Dallas, TX*

- Served as a software and systems requirements representative for the Polish Ministry of National Defence, creating a course on software architecture diagrams and requirements
- Updated tactical missile software with new guidance navigation and control algorithms in Ada
- Validated Hardware in the Loop runs, software requirements, and created system architecture diagrams
- Migrated a missile software database to Gitlab, integrating Gitlab and Jira
- Led community STEM outreach programs for elementary schools in the Dallas-Fort Worth area

### Lockheed Martin Rotary and Missions Systems (Sikorsky)

*Systems Engineering Intern*

**June 2016 – January 2017**

*Stratford, CT*

- Communicated design changes across 5 test helicopters between Sikorsky and NAVAIR, managing excel databases, metrics, and documentation
- Fixed links, requirements, and verification methods in DOORS

## EDUCATION

### University of Illinois Urbana-Champaign

*Master of Computer Science*

**May 2022**

*Champaign, IL*

- Concentration in Data Science
- GPA: 3.9/4.0

### University of Maryland College Park

*B.S. Computer Science & Mechanical Engineering*

**May 2019**

*College Park, MD*

- Entrepreneurship and Innovation Honors College
- Banneker Key Scholar
- GPA: 3.6/4.0, graduated with Engineering Honors

## SKILLS & INTERESTS

- **Languages:** Python, C/C++, Matlab
- **ML/Software Tools:** Horovod, PyTorch, Tensorflow, Linux, Jira+Confluence, Git, Jupyter Notebook, VSCode, Docker, KubeFlow, NVIDIA GPUs