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# Nicholas Larsen

## Software Engineer

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### EDUCATION

**Master of Science in Computer Science - AI/ML**, *Southern Methodist University* (4.0) 2020-2022  
**Bachelor of Science in Computer Science**, *Texas Christian* (3.670) 2014-2018

### SKILLS

<b>Numpy, python, Torch</b>	<a href="#">GAN Training Experiment</a> - Final Graduate Project
<b>Technical Writing</b>	<a href="#">GAN Training Paper</a> - Final Graduate Paper
<b>Tensorflow, Convolutional Neural Networks</b>	<a href="#">Classifying Brian Cells</a> - Graduate Project
<b>Understanding Convolutional Neural Networks</b>	<a href="#">Building upon OpenAI Microscope</a>
<b>Something I'm proud of</b>	<a href="#">Learned Rubik's</a> - iOS app that teaches you how to solve a Rubiks Cube. For reference <a href="#">OpenAI</a>

### TECHNICAL EXPERIENCE

**Software Engineer Senior** May 2022 - Present  
*Lockheed Martin A* Fort Worth, TX

- Implement automated pipelines for Catia V5 and 3dx (V6) customizations using GitLab Pipelines.
- Standardize packages and deployments to company network and closed areas.
- Develop and support applications that configure Catia 3dx and V5 environments with proprietary software and settings.
- Architect Catia V5 and 3dx environments with proprietary software, 3rd part applications, and cooperate settings, giving Lockheed designers an edge on the competition.

**Machine Learning/AI at Lockheed Study Group** April 2023-May 2023  
*Lockheed Martin* Fort Worth, TX

- Attended classes lead by Lockheed Martin professionals teaching the fundamentals of Data Science using the company's preferred tool sets.
- Work with colleagues inside Lockheed Martin to solve sample problems in Data Science

**Software Engineer** July 2018 - May 2022  
*Lockheed Martin* Fort Worth, TX

- Maintained an application for releasing design engineer's drawings and 3-D models. Leverage a Oracle database for storing the CAD Data, meta-data parts and positions on different airplanes, and release state of drawings.
- Developed features for designers to create retro-fit 3-D models to mimic elements of a previously designed mod-kit drawings and modify spacial query functions to consider the instructions when querying 3-D space.
- Supported the effort to migrate programs from outdated Catia V4 systems into our Catia V5 system for drawing release and 3-D design. Specifically, support processes that make this an easy transition for legacy programs.

**Software Engineer Intern** May 2017 - Aug 2017  
*Inmar* Fort Worth, TX

- Translated complex Microsoft SQL logic in stored procedures to SQL Server Integration Service (SSIS) packages for daily loads from a real-time database (Informix) to a long term Data Warehouse (Microsoft SQL).
- Wrote SQL Server Reporting Services (SSRS) dashboards to report on long term error trends in the daily loads to enable development teams to anticipate potential problems.