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# Nicholas Larsen

## Software Engineer Sr

[github.com/nlarsen31](https://github.com/nlarsen31)  
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### EDUCATION/CERTIFICATION

<b>Master of Science in Computer Science - AI/ML</b> , <i>Southern Methodist University</i> (4.0)	2020-2022
<b>Bachelor of Science in Computer Science</b> , <i>Texas Christian</i> (3.670)	2014-2018
<b>CompTIA Security+ Certification</b>	

### SKILLS

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

### TECHNICAL EXPERIENCE

<b>Software Engineer Senior</b> <i>Lockheed Martin</i>	<b>May 2022 - Present</b> <i>Fort Worth, TX</i>
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- Implement automated pipelines for Catia V5 and 3DX (V6) customizations using GitLab Pipelines.
- Design and implement continuous integration/continuous development processes for CAD/CAM applications to air-gaped networks and unclassified networks.
- Architect Catia V5 and 3DX environments with proprietary software, 3rd party applications, and cooperate settings, giving Lockheed designers an edge on the competition.

<b>Machine Learning/AI at Lockheed Study Group</b> <i>Lockheed Martin</i>	<b>April 2023-May 2023</b> <i>Fort Worth, TX</i>
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- Attended classes led by Lockheed Martin professionals teaching the fundamentals of Data Science using the company's preferred tool sets.
- Collaborated with colleagues inside Lockheed Martin to solve sample problems in Data Science.

<b>Software Engineer</b> <i>Lockheed Martin</i>	<b>July 2018 - May 2022</b> <i>Fort Worth, TX</i>
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- Maintained an application for releasing design engineer's drawings and 3-D models. Leveraged an 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.

<b>Software Engineer Intern</b> <i>Inmar</i>	<b>May 2017 - Aug 2017</b> <i>Fort Worth, TX</i>
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- 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.