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Nicholas Larsen
Software Engineer Sr

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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

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

TECHNICAL EXPERIENCE

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

- 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.

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

- 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.'

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

- 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- Supported the effort to migrate programs from outdated Catia V4 systems into our Catia V5 system for drawing release and 3-D design.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.

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.