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Nicholas Larsen

Software Engineer Sr

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EDUCATION/CERTIFICATION

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
CompTIA Security+ Certification

SKILLS

Numpy, python, Torch	GAN Training Experiment Final Graduate Project	Technical Writing	GAN Training Paper Final Graduate Paper
Tensorflow, CNN	Classifying Brian Cells Graduate Project	Understanding CNN	VGG Microscope Reference OpenAI Microscope
Something I'm proud of	Learned Rubik's iOS for solving a Rubik's Cube.	Personal Project	Eurche in Godot First attempt at Game Dev

TECHNICAL EXPERIENCE

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

- Architect Catia V5 and 3DX environments with proprietary software, 3rd party applications, and cooperate settings, giving Lockheed designers an edge on the competition.
- Implement automated pipelines for Catia V5 and 3DX (V6) customizations using GitLab Pipelines used across the CAD/CAM organization.
- Design and implement continuous integration/continuous development processes for CAD/CAM applications to air-gaped networks and unclassified networks.
- 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.
- Manage coding standards and approve code reviews for development of 3dx and V5 custom applications

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.