

## JACK J. HAEK

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Summary	I'm a software engineer based in Phoenix, AZ, with a history of application development, machine learning research, and data analysis. I leverage my background with many programming languages as I approach new challenges and craft innovative solutions. I am an ambitious individual, looking to join a new team that puts my skills to the test.	
Education	Master's in Software Engineering from Arizona State University Concentration on Software Processes, Management, and Testing	Class of 2026
	Bachelor's in Computer Science from Milwaukee School of Engineering Focus on Artificial Intelligence and Machine Learning University Scholars Honors Program	Class of 2024
Work	Leading Edge Lighting – Software Contractor	Dec 2024 – Current
History	Based on user feedback, developed and proposed a plan to design and implement new applications for order organization, completion, and price estimates leveraging skills with SQL, React, and Golang.	
	Medical College of Wisconsin – Data Science Co-Op Jan 2024 – May 2024 Worked collaboratively to develop a python-based data pipeline (Tensorflow, NumPy, and Pandas) to extract radiomic features from spinal MRI scans to predict future pain and spinal degradation levels for a patient. Iterations of the model were evaluated by experts and iterated upon by implementing several bootstrapping techniques and developing a method of continuous integration using a super compute cluster.	
	<b>GEOST – Enterprise Software Engineering Intern</b> Developed, implemented, and tested camera control software in a Linux (RHEL) environment for a satellite payload. Programmed features in C++ (NASA cFS framework) with regular end to end testing utilizing Jenkins, cumulating in hardware testing, all in support of an accelerated development cycle.	
	RTM Engineering Consultants - Software Engineering InternMay 2021 - Sept 2021Worked with interdisciplinary engineers to identify, develop, and distribute add on python modules to Autodesk Revit that were both user-friendly and increased productivity for internal engineering teams.	
	<b>Direct Supply – Software Engineering Intern</b> Developed consumer level software utilizing C# and SQL Azure databases. Feat managed with Git and production candidates were evaluated using an autom	
Activities and Honors	Artificial Intelligence (A.I.) Club – Founding Member2020 – 2024Researched various aspects of digital signal processing including neural audio decorrelation and fastFourier transformation algorithms with a generative adversarial network (GAN) to filter external noisesfrom hearing aids during conversation. Final model trained over the course of 4 weeks, making use of 2Nvidia DGX super compute nodes.	
	Capstone Project2021 – 2022Worked with a team of interdisciplinary engineers to research and develop a low-cost combined 3Dprinter and a CNC machine. Led development on a local web server that controls the machine remotelyin addition to contributing to firmware development.	
	NASA Lunabotics Competition Team Northern Athletic Collegiate Conference Scholar-Athlete Award Computer Engineering Industrial Advisory Committee MSOE Varsity Basketball	2019 - 2021 2019 2018 - 2020 2018 - 2021