

Daniel Smith

📞 248 207 5059 | @ dsmith.smith864@gmail.com | 🔗 LinkedIn | 🐙 GitHub | 📁 Portfolio

EXPERIENCE

Censys

Staff Data Science Engineer

Ann Arbor, MI (Remote)

Oct 2025 – Present

- Built host reputation scoring system in Go that assigns reputation scores to IPs at scale
- Developed automated cybersecurity fingerprint generation pipeline using LLMs and an evolutionary approach

MOTOR Information Systems

Full Stack AI Engineer

Troy, MI

Jun 2024 – Oct 2025

- Used dynamic RAG to extract classification from unstructured text
- Helped build production application in Sagemaker and Kubeflow
- Built agentic system to standardize raw manufacturer text data

Instinct Science

Lead Data Scientist

Remote

Aug 2019 – Jun 2024

- Built out Analytics reporting platform
- Helped build a new data warehouse to support analytics, using Redshift and Metabase
- Built speech to data extraction application for vitals data
- Developed and deployed machine learning models

Rocket Mortgage

Senior Data Scientist - Consultant

Detroit, MI (Remote)

Aug 2017 – Jun 2024

- Built the document classification model used to process the financial document pipeline, both for the serverside and mobile application
- Developed LLM and multimodal models to help automate appraisal reviews
- Constructed computer vision models for a range of use cases across the family of companies, from advertisement overlay for Rocket Auto to image quality pre-filtering at Rocket Mortgage to developing digital user profiles for Rocket Homes
- Started and led the weekly Deep Learning Journal Club, discussing and coding current research. Mentored 4 interns and numerous team members with their projects

Auto-Owners Insurance

Actuarial Technician

Lansing, MI

Jul 2014 – Aug 2017

- Built models to predict insurance claim frequency and severity using GLMs
- Built tools to perform variable selection, interaction detection, and outlier analysis
- Developed tracking reports to monitor the performance of models
- Worked as the lead project coordinator for the Commercial Auto pricing algorithm
- Passed actuarial exams P, FM, MFE, C, and S

Furman University

Visiting Assistant Professor

Greenville, SC

Aug 2013 – Jul 2014

- Published research: The behavior of the Chern Scalar Curvature under the Chern-Ricci flow, with Matt Gill, Proceedings of the American Mathematical Society
- Presented research lectures at UC Berkeley and UC Irvine
- Taught math classes on Probability, Statistics, and Calculus

EDUCATION

Michigan State University

Ph.D. Mathematics

Thesis: Stability of the almost Hermitian curvature flow

East Lansing, Michigan

Aug 2007 – Aug 2013

Michigan State University

B.Sc. Mathematics

Specialization: Actuarial Science - Additional statistics and probability courses

East Lansing, Michigan

Aug 2002 – Aug 2007

SKILLS

Deep Learning: Transformers - Language and Vision, Computer Vision - Classification, Localization, Object Detection, TensorFlow, PyTorch, HuggingFace Transformers

Classical Machine Learning: Generalized Linear Models, Ensemble Models - Random Forest, Gradient Boosting, Support Vector Machines, Statistical Methods - ANOVA, Clustering, PCA

Programming: Python, Go, SQL, Git, Docker, AWS

PROJECTS

Medical Imaging | [GitHub](#)

- This project contains tools for classifying and localizing abnormalities in medical images

Medical Summarization and Transcription | [GitHub](#)

- Tools for transcribing medical audio data with the ability to summarize and perform question-answering.

PUBLICATIONS

The Behavior of the Chern Scalar Curvature under Chern-Ricci Flow | [Proceedings of the AMS](#)

- We showed that finite-time singularities in the Chern-Ricci flow are characterized by the blow-up of the scalar curvature of the Chern connection

Stability of the Almost Hermitian Curvature Flow | [arXiv](#)

- I showed that Kähler-Einstein structures are stable under small perturbations for a new geometric flow, Almost Hermitian Curvature Flow, for Calabi-Yau manifolds and manifolds with a negative first Chern class

VOLUNTEER

Detroit Area Pre-College Engineering Program (DAPCEP)

Instructor

Detroit, MI

Feb 2018 – Aug 2018

- Taught middle school students programming and hardware basics
- Built raspberry pi based computers and taught basic programming

Volunteers of America

Data Analyst

Lansing, MI

Oct 2016 – Aug 2017

- Performed data analytics on the effectiveness of different volunteering projects
- Ran exploratory data analysis on medical data to support grant applications