

EDUCATION

- **Michigan State University** 2008
M.S. in Physics
- **Grand Valley State University** 2006
B.S. Physics

EXPERIENCE

- **State of Michigan, DTMB, supporting MILogin** *September 2017 to July 2023*
IT Specialist
 - Application maintenance and performance management.
 - System architecture planning and capacity management, including cloud based and containerized platforms.
 - Python scripting and LDAP administration.
 - IAM system integrations with other systems using SAML 2.0, OAUTH, OIDC, and header-based (reverse proxy) technology
 - IBM identity management stack, including ISIM (ISVA), ISAM (ISVG), DB2, TDI, and SDS
- **State of Michigan, DTMB, Agency Services supporting MDOC** *March 2015 to September 2017*
System Architect
 - Design, implementation, and support of computer systems used by the Michigan Department of Corrections
 - Technology covered a diverse range of needs including inmate information systems, medical, education, and commerce/ERP software
 - Web administration, application troubleshooting, and release management
- **Michigan State University, Research at Fermi National Accelerator Laboratory** *March 2007 to January 2015*
High Energy Physics Research Assistant
 - Development of wavelength-shifting fiber scanner for NOvA experiment. Software for motion control and data acquisition system.
 - Detector simulation and reconstruction software including computer vision algorithms (C++ code).
 - Experimental Data analysis.

TECHNICAL SKILLS AND INTERESTS

Environments: Linux and MS Windows

Languages: C/C++, Java, Python, Javascript

Libraries : C++ STL, Python Libraries, OpenCV, ROOT

Areas of Interest: Data Analysis, High Performance Computing, Computer Vision, Numerical Algorithms

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability