

Peter Solfest

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Summary

I develop and engineer software solutions and models using state-of-the-art techniques and technologies. I am especially interested in positions that leverage my applied/computational mathematics and physics background to solve problems for customers in the space domain.

Professional Experience

- **Mathematician** Northrop Grumman
SWAFS, Weather and Space Impacts Research and Development Center Feb 2017 – present
– Roles: SWAFS Tech Lead, Research Assistant, SWAFS Software Developer
- **Engineering Scientist Associate** Applied Research Laboratories, UT
Space and Geophysics Laboratory Oct 2015 – Jan 2017
- **Research Assistant** University of Minnesota
Dept. of Computer Science July 2014 – Mar 2015
- **Calculus Instructor** Michigan Tech Dept. of Mathematics
Calculus 1 and 2 Jan 2013 – June 2014 (4 semesters)
- **Lunar and Planetary Space Academy** NASA - Goddard, MD
Instrumentation development for space based Gamma Ray Spectroscopy Summer 2011

Professional Certifications

- **Caltech DevOps Post Graduate Program Certificate** Caltech CTME
cloud-native development and agile operations Ongoing (Nov 2020 - May 2021)
- **CSSLP (Member ID: 788005)** (ISC)²
secure software throughout development lifecycle Oct 2020 – Sep 2023
- **Model-Based Systems Engineering** Caltech CTME
SysML training and model creation 2019
- **System Engineering Fundamentals** Caltech CTME
Practical methods and tools for system engineering 2019
- **Security+** CompTIA
Application, network, and device security Feb 2018 – Feb 2021

Education

- **Michigan Technological University** Houghton, MI
M.S. in Applied Mathematics; GPA: 4.00 Aug 2012 – June 2014
- **Michigan Technological University** Houghton, MI
B.S. in Physics and Applied/Computational Mathematics; GPA: 3.94 Aug 2008 – Apr 2012

Skills

- **Practices:** Agile methodologies, multi-language development, DevSecOps, Software Modeling
- **Tools:** Fortify, GitHub, git, Jenkins, JIRA, L^AT_EX, Linux, Make, MATLAB, Maven, SharePoint
- **Languages:** BASH, C, C++, Fortran (Modern and 77), Java, JavaScript, Python, SysML, SQL

Achievements

- **NG IP trade secret awards** MS IP Committee
3 related to space and weather effects on communications 2018-2019
- **Outstanding Teaching Award** Michigan Tech Dept. of Mathematics
Graduate Level 2014
- **Co-Recipient of Ian W. Shepherd award** Michigan Tech Dept. of Physics
"presented each year to the most outstanding physics graduate(s)" 2012