Kevin Francis

Engineer | Data Scientist

(256) 617 4174

kevinfrancis1.github.io

kevinfrancis1492@gmail.com

/in/kevinfrancis14

kevinfrancis1

Technical Skills

Programming | Software

Python • R • Office Suite

Matlab • SQL • Git • Atlassian Suite

BASH • C++

Education

MS, Data Science
University of West Florida
2020 - | Pensacola, Florida

MS, Physics
Auburn University
2017 - 2019 | Auburn, Alabama

BS, Physics
University of West Florida
2014 - 2017 | Pensacola, Florida

Relevant Coursework
Intro to Scientific Computing
Computational Chemistry
Database Systems
Statistical Modeling
Modeling in Regression
Machine Learning
Data Mining

Experience

Aug 2019 - Present — **Engineer** — IERUS Technology
Huntsville, AL

- Work as an engineer and scrum master on a modeling and simulation software team
- Investigate and develop metrics to quantify software performance
- Use Python and MATLAB to automate tasks and create analysis tools
- Design and use tools to analyze radar signals

May 2018 - Aug 2018 — **Researcher** — Air Force Research Lab
Albuquerque, NM

- Investigated the RF emitted by filamention from different beam profiles
- Explored how different beam profiles behave in turbulence
- Characterized the long distance propagation for different beam types
- Used various lab equipment to align the laser and collect data
- Utilized python for image analysis on CCD images
- Applied signal processing techniques to find information about the emitted RF
- Organized and presented results in a technical document after completion

Aug 2016 - May 2017 — **Researcher** — University of West Florida
Pensacola, FL

- Researched stable structures of boron nanoparticles
- Utilized Naval Research Laboratory Molecular Orbital Library (NRL-MOL) to perform electronic structure and density functional theory calculations
- Python was used for task automation and analysis
- Presented results at multiple conferences

May 2016 - Aug 2016 — **Researcher** — Brigham Young University
Provo, UT

- Searched for new stable ternary superalloys
- Applied cluster expansion techniques with UNiversal CLuster Expansion (UNCLE) software package
- Implemented density functional theory using Vienna Ab initio Simulation Package (VASP)
- Employed python scripts over a cluster for data analysis and job automation
- Compiled results into a technical document and presented results