

# Madeleine Weber

Computer Engineer

## CONTACT

304-362-2202

madeleine.b.weber@gmail.com

Personal Site

Morgantown, WV

## EDUCATION

### Purdue University

August 2023

M.S. in Electrical & Computer Engineering

GPA: 3.49/4.0

### West Virginia University

May 2022

B.S. in Computer Engineering

GPA: 3.61/4.0 | Honors College

## SKILLS

Python

C

C++

Java

MATLAB

Simulink

XCode

## INVOLVEMENT

- Society of Women Engineers
- Alpha Omega Epsilon
- Food Recovery Network

## WORK EXPERIENCE

### Software Engineer IP Litigation Consultant

June 2023 - Present

Aon (Remote)

- Performed research on emerging technologies and their impact on the IP sphere.
- Reviewed Intellectual Property materials for relevant information.
- Presented findings and technical concepts to colleagues.

### Static Code Analysis R&D Fellow

Aug 2020 - May 2023

NASA

- Developed a tool to improve the efficiency and accessibility of static code analysis tools.
- Presented research to other SCA analysts and IV&V staff.
- Improved tool documentation and Static Code Analysis training resources.

### Academic Coordinator

May 2020 - Aug 2020

WVU Upward Bound

- Mentored underprivileged youths to ensure their success in summer classes.
- TA-ed and tutored students in a variety of classes, focusing on math and science.

## PROJECT EXPERIENCE

### Understanding Democracy: A Government and Politics Guide

App Development

- Developed and launched an iOS app to make learning about the U.S. government accessible.
- Utilized XCode to implement the app's interface and functions.
- Achieved 100+ downloads on the Apple App Store.

### EcoCAR Mobility Challenge

Propulsion Controls Modeling Team

- Worked with a Simulink model of HEV propulsion controls.
- Performed research on Equivalent Consumption Minimization Strategies.

## PUBLICATIONS & PRESENTATIONS

### Publication:

*"CST: A Tool for Improving the Efficiency and Effectiveness of Static Code Analysis Tools", NASA OSTEM Internship Program Abstract Book, 2021.*

### Selected Presentations:

- SCA R&D: The Next Generation of IV&V SCA (NASA IV&V, 2022)
- Implementation of VR and Leap Motion in Stroke Patient Therapy (WVU Research Symposium, 2019)