30 Fairlee Road West Hartford, CT 06107 Cell: 860-922-1105 callum.j.novak@gmail.com

#### Work Experience

## Freelance Web Developer

Multiple clients

West Hartford, CT 03/22 to present

- Built and continue to update and maintain portfolio webpage for small landscape design business
- Developed new features for the homepage web redesign of a multinational tech company, launched in early 2022
- Worked with design team to implement and deliver features for monthly releases, improve responsiveness, accessibility, and page performance
- Technologies: HTML, CSS, JavaScript, Node.js, React.js, Git

## **Teaching Assistant**

West Hartford, CT 10/22 to present

West Hartford Public Schools

- Assisted in classes across all subjects at the High School level
  - Provided Information Technology support in the classroom and main office
  - Supported administration in planning substitute teacher coverage for the school

# Aerospace Engineer

Dahlgren, VA 10/16 to 10/21

Naval Surface Warfare Center Dahlgren Division

- Supported At Sea, Dockside, and Land Based Pre-Launch Alignment Testing for Tactical Tomahawk Weapon Control System
  - Conducted Pre-Launch Alignment Testing, analyzed data and provided analysis to Program Management and contractors; analysis supported evaluation of Weapon Control System software, as well as hardware
  - Created new and maintained existing MATLAB tools for processing Alignment Testing data collected in test
    events; wrote and updated user guide documentation; used tools to perform quality assurance before fleet
    release of software build
  - o Composed and updated user guide documentation for Alignment Analysis Tools
  - Using these tools, performed quality assurance before fleet release of software build
  - Ported existing tools from MATLAB to Java; performed code review on tools developed by other members of the Analysis Group
- Completed a project working on trajectory optimization as one of three team members during a rotation with an external department, as part of the New Employee Development Program
  - O Developed a genetic algorithm implementation in Java
  - Project produced satisfactory solutions in significantly shorter time then previous methods
  - Composed and presented a technical brief for division leader
- Successfully delivered a new test tool version in an Agile development group
  - Observed testing process which involved manual translation of hex words in data messages
  - Updated and enhanced the existing C++ test tool to automate the translation process to make the messages human readable
  - Reduced processing time from an hour per mission to a few seconds

#### Education

### University of Virginia, School of Engineering and Applied Science

BS, Aerospace Engineering, Graduated May 22, 2016 with distinction, 3.480 GPA

Charlottesville, VA 08/12 to 05/16

## **Project Highlights**

- Team Leader, Aircraft Design
  - Led the aerodynamics technical group on a Capstone design team to design a Distributed Electric Propulsion regional commuter plane for the NASA Student Design Competition; design placed first in the competition
- Team Member, Spacecraft Design
  - Developed a conceptual design of the communications architecture for our three-satellite constellation on the communications team, which NASA launched on April 17, 2019

#### **Technical Skills**

- Technologies: JavaScript, HTML, CSS, Node.js, Express.js, MongoDB, React.js, MATLAB, Git
- Intermediate experience in Java, working in an Agile environment