Aidan Roig

Software Engineer

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Work Experience

Software Developer Intern *05/2023 to 07/2023*
Zoot Enterprises – Bozeman, MT

- Assisted in development of company projects and bugfixes with the Core Software Integration (CSI) team.
- Ensured security of consumer data through the development of file encryption and decryption **Python** software.
- Created configuration files of type **YAML** to improve script configurability.
- Automated the creation of excel document reports to store and summarize thousands of input client data.
- Practiced version control using **Bitbucket** and **Git**.
- Deployed updated scripts to **Linux** hosts using **Jenkins** and **Ansible**.

Projects

Personal Website
- Website created that goes into my experience and projects in more detail. Programmed using **HTML**, **CSS**, and **JavaScript**.

Tic-Tac-Toe
- Game created to be played against an AI with easy and hard modes and a **Tkinter** GUI for the user to interact with. Programmed with **Python**.

Vehicle Position Simulator
- Output the changing position and state of a moving vehicle given a file with several sets of direction and velocity inputs programmed using **C++.**

Solar Tracker
- Collaborated with a team to build a solar tracker. I focused on programing the **Arduino** to read resistance changes from photoresistors and rotate the motor accordingly.

Text-based UNO
- Fully working UNO game which allowed for multiple users programmed using **C**.

Education

Bachelor of Science: Software Engineering *Expected in 05/2025*
University of Arizona – Tucson, AZ
- 3.94 GPA
- Dean's List [Fall 2021 – Spring 2023]
- Wildcat Distinction Scholarship Recipient

Important Links

ePortfolio:
aroig1.github.io/Personal-Website/
GitHub:
github.com/aroig1

Skills

Programming Languages
- C
- C++
- Python
- HTML
- CSS
- JavaScript

Tools
- Visual Studio Code
- Linux
- Conda
- Jenkins
- Ansible
- Git
- Bitbucket
- SolidWorks
- Microsoft Excel

Concepts
- Object-Oriented Programming (OOP)
- Unified Modeling Language (UML)
- Agile

Relevant Coursework

- Calculus I and II
- Discrete Mathematics
- Intro to Ordinary Differential Equations
- Computer Programming Engineering Applications
- Digital Logic
- Intro to Software Engineering
- Object Oriented Modeling and Design
- Introductory Mechanics
- Intro to Electricity and Magnetism