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 with the Core Software Integration (CSI) team which focuses on the backend and cybersecurity of Zoot's automated financial decision software.

- Ensured security of consumer data through the development of file encryption and decryption **Python** software.

- Created and worked with configuration files of type **YAML** and **JSON** 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
- **Python** game created to be played against an AI with easy, hard, and ChatGPT modes using a **Tkinter GUI** for the user to interact with. It uses **OpenAI's API** to interact with ChatGPT's true AI.

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
- Java
- 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

- Data Structures and Algorithms
- Fundamentals of Computer Organization
- Discrete Mathematics
- Computer Programming Engineering Applications
- Digital Logic
- Intro to Software Engineering
- Object Oriented Modeling and Design