Andrew Vester

vesteran@oregonstate.edu | vesteran.github.io

Education

Oregon State University: BS Computer Science **Expected Spring 2025**

Focus: Bioinformatics

Minor: Biological Data Sciences

Work Experience

Oregon State University CN **2020 - Present**

Student Technician

- Collaborated with around 100 students to support most of the OSU campuses and extension offices.
- Assisted Students and Faculty with hardware and software issues.

Consolidated Precision Products **March 2023 - Sep. 2023**

MECOP Intern

- Developed apps used on the factory floor to keep track of the casting process.
- Integrated communication between multiple large SQL databases and our internal apps.

Research Experience

Undergraduate Student - Hendrix Lab **2023 - Present**

Advisor: David Hendrix

- Investigated complexity and genus of Pseudoknot Structures in RNA.
- Wrote software to determine the genus and type of RNA Pseudoknot Structures
- Collaborated to implement 3D RNA structure visualization on the bpRNA database website.

Publications

- None Yet

Skills

- Programming
- Adaptability

- Ability to quickly learn
- R/RStudio
- Problem Solving
- Collaboration

Programming Languages

- Python
- C#
- C++
- C
- HTML/CSS/JS
- SQL

Projects

Personal Website

https://vesteran.github.io/

- Made using the React Framework and hosted on GitHub sites.
- Contains my past projects, a link to my CV, and an about page.

Bacterial Colony Counting Software

https://li-johnny.github.io/colony-capstone/

- Software that using a combination of machine learning and algorithmic methods would identify and count the number of bacteria colonies in a photo of a petri dish
- Made using python with a team of 5 students as our senior capstone project.

Smallsh

https://github.com/vesteran/smallsh

- A low impact terminal shell coded in C.
- Made as a project for an operating systems class.

Web Picross

https://github.com/arelconnor/picross

- Web version of the logic game Picross created using HTML, CSS, and JS
- Made as a final project for a web design class with a team of 4 students.

Conway's Colors

https://github.com/vesteran/Conways_Multiplayer

- Web version of Conway's game of life which is shared among users of the site.
- The color of the cells is randomized per user and when a new cell is formed it combines the colors of its parents.
- Coded as a personal project using HTML, CSS, and JS

Interests

Evolutionary Biology

- How and why evolution has shaped the creatures around us and the implications thereof

Various Invertebrates

- Cephalopods, specifically octopuses are some of the most interesting animals, especially with their intelligence which emerged in a completely difference evolutionary line then that which we normally associate with intelligence
- Spiders and other arachnids, beautiful animals with incredibly interesting biology
- Some Insects, Siphonophores, and some other invertebrates are also incredibly interesting.

Software Simulation

- The idea of simulating various biological processes like evolution through computers.

References

David Hendrix
Associate Professor
david.hendrix@oregonstate.edu

Max Cohen
Service Desk Supervisor
max.cohen@oregonstate.edu