

O MAXWELL ANDERSON

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Passionate, creative programmer with excellent technical and communication skills. Interested in creating useful and innovative software while learning new skills in a professional environment.

EDUCATION

Miami University, Bachelor of Science

Major: Computer Science

Areas of Interest: Web Development, High Performance Computing, Machine Learning

EXPERIENCE

Teaching Assistant, Miami University
Oxford, OH

September 2017 – Present

- Assist the professor with teaching students the fundamentals of relational database design, SQL, and other skills
- Communicate effectively with students to further their understanding of course material
- Collaborate with professor about possible class topics and activities

Bioinformatics Intern, Henry M Jackson Foundation
Wright Patterson Air Force Base, OH

September 2015 – May 2017

- Helped write a pipeline in tandem with open-source bioinformatics software to extract and create data about viral RNA strands
- Utilized supercomputers to process large amounts of files through the pipeline
- Created a C++ tool to find secondary structural motifs in viral RNA strands

SKILLS

- C++, Java, SQL, JavaScript, PHP, HTML, CSS, Python
- Machine learning techniques
- Relational databases
- Web development
- Communication and technical writing skills
- Experience in Unix-like operating systems
- Quick and eager learner

PROJECTS

- Physics-based particle simulations (C++) – used basic physics concepts to graphically simulate small fireworks, slingshots, orbits, and more.
- Social network web application (PHP, HTML, CSS) – explored front and back-end web development and frameworks to create an application that could be used by D&D groups to organize games.
- AI Breakthrough player (Java) – worked with a team to create an AI board game player that utilized alpha-beta tree search and multi-threading to win a tournament against other AI players.