William Owens

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GitHub: **wsowens**

EDUCATION

B.S. in Microbiology and B.S. in Computer Science   **Both Expected May 2020**
University of Florida, Gainesville, FL.
Current GPA: 4.00 / 4.00

Relevant coursework:
- Biochemistry, Immunology, Molecular Genetics, Molecular Bioinformatics, Synthetic Biology
- Operating Systems, Digital Logic, Programming Language Concepts, Software Engineering

AWARDS

Goldwater Scholar, University of Florida   **Apr. 2019**
Scholar, University Scholars Program, University of Florida   **Mar. 2018**
Member, UF Honors College   **Aug. 2016 – present**
Recipient, BASF National Merit Scholarship   **Apr. 2016**

RESEARCH EXPERIENCE

Lab Assistant, Kladde Laboratory, University of Florida   **May 2018 – Present**
- Processed and analyzed data for all other lab members on HiPerGator 2.0, UF's supercomputer
- Generated high-resolution maps of the epigenome and highlighted potential cancer biomarkers
- Investigated a possible regulatory region by generating knockouts with CRISPR/cas9
- Applied both traditional and computational techniques for an independent senior thesis project

Team Member, iGEM Team UFlorida   **Oct. 2017 – Oct. 2018**
- Designed and implemented the first successful *E. coli* butyrate synthesis pathway in iGEM history
- Awarded silver medal from prestigious synthetic biology competition, a first for our university

Lab Assistant, Bass Laboratory, Florida State University   **May 2017 – Aug. 2017**
- Contributed to development of a program to search for potential G4 DNA sequences *in silico*
- Developed a library of scripts to quickly process FASTA files, BED files, and other genomic data

LEADERSHIP EXPERIENCE

Supplemental Instruction Leader, University of Florida   **Aug. 2018 – Aug. 2019**
- Delivered lecture-style exam reviews to hundreds of organic chemistry students
- Led other teaching assistants and developed comprehensive exams for Dr. Jason Portmess

President, UF Open Source Club   **Mar. 2018 – Mar. 2019**
- Led student organization dedicated to developing open source software for the community
- Increased member involvement and oversaw work on 4 concurrent programming projects

Eagle Scout, Boy Scouts of America   **Mar. 2009 - May 2016**
- Designed and constructed a large, safe children's playground to give back to community

SKILLS

Proficient with: Python, Rust, Shell scripting, and *NIX Systems
Familiar with: SQL, Java, C, C++, HTML/CSS/JS, OCaml, R, and Latin
Experienced with standard cell culture and molecular biology protocols, including CRISPR genome editing.