Max Morrison

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EDUCATION

UNIVERSITY OF MARYLAND, COLLEGE PARK

B.S. in Computer Science
Minor in Mathematics
CS Departmental Honors
College Park Scholars Citation

Expected May 2020
GPA: 3.82/4.00

SKILLS

LANGUAGES

Know Well:
Java • C • Python
Proficient:
Bash
Beginner:
HTML/CSS • Perl • OCaml • Ruby
MIPS Assembly • Rust

ADDITIONAL

Unix/Linux • Android Development
Git • Adobe Photoshop

COURSEWORK

COMPUTER SCIENCE

Algorithms
Organization of Programming Languages
Discrete Structures
Intro to Operating Systems
Object Oriented Programming I & II

MATH

Applied Probability and Statistics I
Calculus II & III

SUMMARY

Student at the University of Maryland currently pursuing a B.S. in Computer Science with a Minor in Mathematics (2020). I also work at the USDA, where I combine my programming and genetics knowledge to analyze invasive insects. Recently, I joined UMD's CS departmental honors program, and hope to become involved in research this upcoming semester. Outside of the classroom, I have taught myself Android development using my Java knowledge. I have experience working with many different types of people: the general public as a cashier, pathologists as a research assistant, and middle schoolers as a camp counselor. I am a hard worker, quick to learn, and try to think creatively whenever I can.

PROFESSIONAL EXPERIENCE

US DEPARTMENT OF AGRICULTURE

Junior Computational Biologist
June 2018 – Present | Beltsville, MD

- Use Python, Bash, and Perl programming languages to develop biological sequence analysis pipelines in a high-performance, Linux based computing environment.
- Write scripts to analyze hundreds of thousands of DNA sequences and files.
- Analyze genetic polymorphisms of an invasive insect species using bioinformatic and statistical methods and concepts.

JOHNS HOPKINS MEDICINE DEPARTMENT OF PATHOLOGY

Research Assistant
Apr — Aug 2016 & Jun — Aug 2015 | Baltimore, MD

- Evaluated the viability of a new method of ultrasensitive human DNA detection for use in early leukemia relapse detection.
- Debeljak, M., Mocci, E., **Morrison, M. C.** , Pallavajjalla, A., Beierl, K., Amiel, M., . . . Eshleman, J. R. (2017). Haplotype Counting for Sensitive Chimerism Testing. The Journal of Molecular Diagnostics, 19(3), 427-436. doi:10.1016/j.jmoldx.2017.01.005
- https://jhu.pure.elsevier.com/en/publications/haplotype-counting-for-sensitive-chimerism-testing-potential-for-

PERSONAL PROJECTS

TONE PLAYER | Android App

Feb 2018

- Touch responsive piano keyboard with menu to switch between soundbanks.
- Developed app in Java using Android Studio, generated audio files with Audacity, and exported image files for the individual keys with Adobe Photoshop.
- Taught myself about various android classes in the process, such as Activity, Intent, MotionEvent, ImageButton, SoundPool, and MenuInflator.
- github.com/mcm2020/TonePlayer