Marcus William Fedarko

Contact

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Education

Bachelor of Science, Computer Science — Expected Graduation May 2018
University of Maryland — College Park, MD
University Honors Citation
GPA: 3.80/4.0

Research Experience

Research Intern — June 2016–Present
Center for Bioinformatics and Computational Biology — U. of Maryland

- Designing interactive visualization software for metagenomic assembly graphs under the guidance of Prof. Mihai Pop and Dr. Todd Treangen.

Conference Presentations

1. **M. Fedarko**, J. Ghurye, T. Treangen, and M. Pop, "MetagenomeScope: Web-Based Hierarchical Visualization of Metagenome Assembly Graphs." Poster to be presented at the *25th International Symposium on Graph Drawing & Network Visualization*, Boston, 2017.

Teaching Experience

Undergraduate Teaching Assistant — Fall 2016
CMSC 330: Organization of Programming Languages — U. of Maryland

- Assisting students with coursework (Ruby, OCaml, Prolog; grammars, regular languages, semantics, security) in office hours and on an online discussion board.
- Designing and grading quiz and exam questions.

Professional Experience

Student Staff Writer — January 2015–September 2017
Department of Computer Science — U. of Maryland

- Composing and editing some thirty articles published on the department's website, annual magazine `shell`, and other media.
- Contacting and interviewing related individuals for their perspectives on research, teaching, and other university-based subjects.

Student Intern — May 2013–August 2014
Axiometric — Columbia, Maryland

- Created and maintained utility meter deployment management software.
- Designed a user-friendly graphical interface in Java to an RF propagation model to assist clients in planning deployments of mesh networks.

Intern Software Engineer — July 2012–August 2012
Battlefield Telecommunications Systems — Columbia, Maryland

- Designed a web interface using Python (Django), Javascript, and HTML to monitor the connection strength of radio devices.
- Integrated radio signal testing into the company's existing network management user interface.

Honors and Awards

1. University of Maryland CMNS Dean's List — All Semesters
2. Rita Colwell Travel Fellowship — 2017
3. Travel Award, U. of Michigan "Explore Graduate Studies" Workshop — 2017

4. John D. Gannon Endowed Scholarship 2017
5. Corporate Partners in Computing Scholarship 2016, 2017
6. Member, Omicron Delta Kappa National Leadership Honor Society 2016
7. Northrop Grumman Scholarship for Employees' Children 2014
8. University of Maryland Dean's Scholarship 2014
9. University of Maryland Honors College: University Honors Program 2014