Edward M. Filice

Springfield, MO | (417) 569-0853 | emfilice@gmail.com | www.linkedin.com/in/edward-filice-4ab0b0109

OBJECTIVE

Seeking internship in Software Engineering developing new features and products in a fast-paced, widely influential setting.

EDUCATION

Bachelor of Science in Computer Science. Expected May 2019. University of Houston—Houston, TX

Minors: Mathematics, Physics, and Leadership Studies

Enrolled in The Honors College at the University of Houston

Related Coursework: Intro Computer Science I (C++) & II (Java), Programming and Data Structures, Computer Organization and Architecture, Calculus I, II, & III, Linear Algebra, Statistics for the Sciences, Advanced Linear Algebra

GPA: 3.896**, GPA in Major:** 4.000

PROGRAMMING LANGUAGES

Object-Oriented: C/C++, Java, Python

Web Design: HTML, JavaScript, ASP.NET, PHP, MySQL

PROJECTS AND RESEARCH

Infinite Arithmetic with Data Structures. C++, University of Houston, Spring 2017

- Doubly Linked Lists used to evaluate mathematical operations on large (20+ digit) numbers, including addition, subtraction, multiplication, division, square roots. Learned techniques for manipulating linked lists, as well as fundamentals behind sort methods.
- Five methods of sorting: selection sort, insertion sort, merge sort, heap sort, quick sort. Optimized to keep timing within 10s for lists up to 10000 entries long and 256 digits long. Incorporated negative operations and postfix evaluation for strings of operations.

Phishing Email Classification Via Received Field Analysis. Python, University of Houston, Summer 2017

- Gathered and extracted features using Python from over 8000 emails to train Random Forest classifier to classify phishing emails. Used 10 fold cross-validation and obtained F-Score of .919, area under ROC of .976.
- Used Python with modules tldextract, SciPy, NumPy, matplotlib. Used Weka to run classifier. 9 features used; highest information gain of .112. 7 of 9 features had IG of .050 or better.

HONORS

Dean's List: College of Natural Sciences and Mathematics, 4 semesters; Honors College, 3 semesters.

Scholarships: National Merit Scholarship, Alfred & Bernice Hibbler Scholarship, Jack L. and Peggy Bay Battle Endowment Scholarship.

LEADERSHIP AND CAMPUS INVOLVEMENT

- Director and Actor, Honors College Club Theatre. Since Fall 2015
- Ambassador, Honors Ambassadors. Since Fall 2016