

TYLER BUGBEE

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PROFESSIONAL SUMMARY

Motivated computer science student eager to begin a career in software engineering. Passionate about big data, building solutions, and autonomy.

EDUCATION

University of Georgia – Athens, GA
Bachelor of Science, Computer Science

Expected Graduation: May 2018
GPA: 3.4

Georgia State University – Atlanta, GA
Honors College
Bachelor of Science, Computer Science

June 2014 – May 2015
GPA: 3.74

EXPERIENCE

Crawford & Company – Atlanta, GA
Rotational Risk Sciences/Risk Management/Marketing Intern

June 2015 – November 2016

- Operated within multiple business units, tasked with managing and executing several projects in corporate and technical disciplines
- Conducted machine learning research and model creation/training
 - I implemented Vowpal Wabbit with python to make predictions over a large dataset
 - I fine-tuned key parameters of the core algorithm to arrive at an accurate model
 - I implemented deep learning with the H2O suite to make predictions over a large dataset
- I participated in a focus group tasked with conceptualizing and managing the implementation of a mobile app
- Developed, managed, and executed multiple marketing projects involving extensive logistics and corporate communication

SKILLS	TOOLS	PROJECTS
C/C++ – Proficient with emphasis in several advanced topics such as templates, memory management, operator overloading, and inter-process communication <ul style="list-style-type: none">• Additional exposure to networking functions using C++ such as network IPC	Linux – Proficient in Linux systems and various kernels <ul style="list-style-type: none">• Knowledge of Linux (bash) shell commands• Personal study of the LPI Introductory Program	Binary Search Tree implementation and analysis – <ul style="list-style-type: none">• C++ object-oriented project focused on implementing a true binary tree with extensive member functions
Java – extensive problem solving experience including intermediate levels of recursion	Git – experience with using repositories and Git shell functions <ul style="list-style-type: none">• GitHub: https://github.com/tbarc	Arithmetic/Bitwise expression calculator – <ul style="list-style-type: none">• C++ project which accepts numerical input and evaluates every possible arithmetic and bitwise expression that utilizes the given values to arrive at the given result
Python – Intermediate to advanced program design <ul style="list-style-type: none">• Advanced topics such as lambda functions applied to list comprehension	APIs – knowledge of end to end implementation and authentication <ul style="list-style-type: none">• Experience with implementing OAuth and OAuth 2 authentication methods• Experience with JSON and XML	Search Algorithm implementation and analysis – <ul style="list-style-type: none">• C++ project focused on efficiency comparisons between search algorithms on large datasets• Conducted efficiency analysis including runtime/space complexity
SQL – Big data application of intermediate SELECT statements with levels of aggregation <ul style="list-style-type: none">• Additional personal experience with more advanced SQL functions such as joined tables		
JavaScript – exposure to the node.js and angularJS frameworks		

EXTRACURRICULAR ACTIVITIES

Marching/ Concert Band

2010 – 2014

Percussion Section Leader

- BOA Super Regional Championships – 2010, 2011, 2012, 2013 – Atlanta, GA - Finalists
- BOA Grand National Championships – Indianapolis, IN – 2012 – Finalist Percussion

Ensemble Member

Quartet Leader/Participant

Symphony Orchestra Percussionist (One of 5 chosen)

- Music for All Midwest Clinic – Chicago, IL – 2012

Accomplished Concert Pianist

- Extensive classical study since ~2000
- Continued private study

ACCOMPLISHMENTS

- AP Scholar with Distinction
- Georgia State University President's List 2014