

Josiah Buxton

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EDUCATION

University of Colorado Boulder, Boulder, Colorado, USA

Aug 2017 – May 2019

- Masters of Science (M.S.) in Computer Science with a Concentration in Artificial Intelligence
 - Cumulative GPA: 3.77 / 4.00
 - Floyd Botway Fellowship for Outstanding Master's Student (May 2019)
 - Outstanding Teaching Award (May 2019)

Elizabethtown College, Elizabethtown, Pennsylvania, USA

Aug 2011 – May 2015

- Bachelor of Science (B.S.) in Computer Engineering
 - Cumulative GPA: 3.85 / 4.00
 - Major GPA: 3.88 / 4.00
 - Magna Cum Laude
 - Engineering Honors

WORK EXPERIENCE

Controls/Systems Engineer, Kellogg's Corporation, Lancaster, PA

May 2014 – Jul 2017

- Troubleshoot malfunctioning equipment on the packing lines in the Kellogg's Cereal Plant, Lancaster, PA
- Engineered solutions to upgrade equipment from a controls standpoint
- Experienced in a management position in a Union environment
- Performed Packing Maintenance Manager role on weekends
 - Managed electricians and mechanics
 - Performed emergency repair and planned work
 - Sourced parts
- Led a project to acquire data out of scale equipment
 - Designed a private Modbus TCP/IP network using Cat 5E cabling and Allen Bradley Stratix 5700 switches
 - Installed and configured a Prosoft Modbus TCP/IP module in an existing ControlLogix rack
 - Programmed the ControlLogix PLC to convert the extracted data into tags
 - Created tags in the PI Data Acquisition Server to capture the data and display it in a variety of ways

Instructor (CSCI 3104: Algorithms), University of Colorado Boulder

Jun 2018, Jun 2019

- Lectured two sections of 50 students 5 days a week (1.25 hour lecture)
- Generated weekly problem sets and solutions for the problem sets
- Developed and proctored exams
- Held office hours to answer students' questions
- Assisted students in rectifying conflicts/problems that arose throughout the semester
- Managed a team of teaching assistants, course assistants, and graders

Teaching Assistant, CS Department, University of Colorado Boulder

Jan 2018 – May 2019

- Chosen from a pool of 150 Masters students to assist a professor with teaching undergraduate courses
 - Data Structures (Spring 2018)
 - Algorithms (Fall 2018, Spring 2019)
- Developed and distributed problem sets and solutions for the students throughout the semester
 - Led the integration of GradeScope (an auto-grading tool) into existing problem set grading processes improving the efficiency of grading up to 70%
- Held office hours every week for students with questions/issues pertaining to the course
- Lead recitation sessions for the students

- Student Grader**, CS Department, University of Colorado Boulder Aug 2017 – Dec 2017
- Graded course work throughout the semester for the class "Network Systems"
 - Assisted any students who had issues with the assignments
- Student Helpdesk Assistant**, IT Department, Elizabethtown College Dec 2011 – May 2015
- Assisted students, faculty, and staff with technology issues on campus
 - Monitored servers, routers, and other hardware on the school network; Rectified any network problems

RESEARCH EXPERIENCE

- Scholarship, Creative Arts, and Research Program (SCARP)**, Elizabethtown College
- Undergraduate Research Student, Engineering Department May 2013 – Aug 2013
 - Project: Develop and optimize the E-MAT program to assess fine and gross motor control function of patients with Parkinson's Disease and other debilitating conditions
 - Supervisors: Professor Dr. Kurt DeGoede
 - Research areas: GUI Experience, statistical analysis, data analytics

SOCIETIES

- Alpha Lamda Delta
- Sigma Pi Sigma

COMPUTER LANGUAGES AND SKILLS

- Proficient in Python, Java, C#, C, C++, bash, Visual Basic, \TeX , \LaTeX , SQL, APIs, javascript, Fortran, CMake, CSS, SCSS, HTML, and Matlab languages
- Experienced in React, Django, Redux, Virgil, Plaid, Boost, Express, OpenComponents, and MPI frameworks/libraries
- Leveraged Github, Jenkins, and Valgrind tools
- UML diagrams
- Google Cloud, AWS, and Microsoft Azure
- Experienced in Google Firestore, AWS RDS, MySQL, PostgreSQL, Access, and Excel database environments

NETWORKING SKILLS

- Managing switches/hubs/routers
- CMD shell tools
- Troubleshooting connectivity issues

INTERESTS AND ACTIVITIES

- Entrepreneurship
- Studied Abroad in New Zealand Feb 2013 – Jul 2013
- Vocalign A Capella Group Aug 2013 – May 2015
- Elizabethtown Varsity Soccer Aug 2012 – May 2013
- Guitar/Singing
- Health/Fitness
- Automation

[Engineering Resume compiled on 2021-02-15]