

# Matthew G. Nims

## Permanent Address

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## Contact Information

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## Education

*Butler University*

Bachelor of Science

Major: Computer Science

GPA 3.36/4.00 Major Specific GPA: 3.53/4

Graduation Date: May 2020

## Technical Experience

Visio, C++, **Java**, Matlab, Pspice, CREO  
Parametric, **SQL**, **C#**, **MPI**

## Course Highlights

Object Oriented Design, Data Structures,  
Database Systems, Parallel Algorithms

## Project Experience (classwork)

- Developed a workflow management system focused on user experience in c# as a part of a SCRUM team of 5 people with a product owner(our professor) and stakeholders(students/university IT employees) giving feedback on a biweekly basis. This semester long project requires database manipulation, UML documentation, and at least a three tier object oriented design.
- Programmed a parallel implementation of mergesort with a partner using MPI in c++. This method uses “shapes” which are portions of arrays and sorts them individually(in parallel) while also glueing them together(in parallel). The input is an unsorted array while the output is a sorted array.
- Programmed a greedy solution to the (0-1 KnapSack) problem in c++. This method involves finding items with weight and value that gives the most value for a given Sack size. I found this value by creating a binary tree that stored items but sorted based on the ratio of value to weight.

## Work Experience

United Parcel Service, Brentwood, TN

May-August, December 2017-2018

### *Package Handler*

- Arranged packages on a truck based on many factors including volume, destination, size, and driver’s preference while working in tandem with fellow package handlers to finish a shift as efficiently as possible.
- Assessed projected package volume to distribute the volume evenly through a truck over the course of a shift.

