Present:
2006 Hamilton-Bursley
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Ben Reeves

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EDUCATION

University of Michigan   Ann Arbor, Michigan   **2019**
- Pursuing B.S.E in Computer Science, 4.00 GPA
- Relevant coursework: Programming and Data Structures, Discrete Math, Matrix Algebra

Neuqua Valley High School   Naperville, Illinois   **2015**
- Graduated, 4.38 GPA (4.0 scale, weighted), *Magna Cum Laude.*

SKILLS

- 6 years programming experience, primarily in Java and C++/C#/C
- Working proficiency in Python, Matlab, and Lua
- Skilled with Git, Unreal Engine 4, Unity3D, Android, Blender, Qt Framework, OpenGL
- Object-Oriented Programming and utilization of large-scale APIs (Android Framework, Unreal Engine 4)

EXPERIENCE

Undergraduate Researcher   **Sept. 2015   Present**
University of Michigan, Department of Industrial and Operations Engineering

- Independently developing a 3D visualization and simulation software to aid city officials in planning large-scale emergency evacuations for major metropolitan cities (Sydney, New Orleans, Ann Arbor, etc.).
- Establishing collaborative communication through student-mentor relationship.

Team Coach, Programmer, and Builder   **Sept. 2014   Apr. 2015**
VEX Robotics Team #2360N, Neuqua Valley High School

- Enhanced interpersonal engineering skills while working in a team of 6 students to design, build, code, and operate an award-winning VEX robot.
- Improved the cascading lift design for the robot by implementing a new, more effective construction.
- Independently designed, programmed, and tested a computer simulation of the robot in order to help team stand out during judging at the VEX national competition.
- Oversaw inter-team alliance strategy and directed drivers during gameplay at the VEX national competition, helping lead the team to victory, tying for 3rd place out of 182 teams.

Delivery Dispatcher, Phone Worker, and Bus Boy   **Jul. 2014   Present** (Off-Season)
Lou Malnati's Pizzeria, Naperville, Illinois

- Independently developed an Android application in order to double the efficiency of dispatching deliveries.
- Organized and dispatched roughly 100 delivery orders per night.

Church Volunteer   **Jan. 2009   Present** (Off-Season)
Community Christian Church, Naperville, Illinois

- Led a small group of 4th and 5th grade boys every Sunday morning by facilitating small group activities.
- Played electric guitar on stage during youth group services.

PERSONAL PROJECTS

24-Card Solver   **Dec. 2015   Jan. 2016**
- Developed an algorithm for solving 24-Cards that is 4.6 times as efficient as the "brute-force" algorithm.

"Bengine" Game Engine   **Feb. 2015   Aug. 2015**
- Gained knowledge of 3D computer graphics in OpenGL/C++ by coding a home-made 3D game engine.

Altoids Guitar Amp   **May 2011   Aug. 2011**
- Improved soldering skills and researched amplifier circuits to build a miniaturized guitar amplifier.