ZACHARY BAUER

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EDUCATION

Northeastern University   **Boston, MA**
Candidate for Bachelor of Science in Bioengineering, Minor in Computer Science   May 2020
Relevant Courses: Biomechanics; Quantitative Physiology; Fundamentals of Computer Science 1&2;
Bioengineering Experimentation and Statistics; Engineering Problem Solving and Computation; Engineering Design
GPA: 3.47
Honors/Awards: Dean's List, Honors Program
Activities: BioMedical Engineering Society, Biology Club, Choral Society, NU Sound

Beverly High School   **Beverly, MA**
High School Diploma   June 2015
Activities: Cross Country, 2010-2015; Musical Theater, 2010-2015; Destination Imagination, 2008-2015

SKILLS

Proficient Programming Languages: Java, Python (Flask), Matlab, HTML/CSS/Javascript (D3)
Familiar Programming Languages: Git, PHP, C++/C#, Arduino, Javascript (jQuery, Node, Angular)
Applications: AutoCAD, SolidWorks, Mimics, Unity, Microsoft Office

RESEARCH

Interdisciplinary Affective Sciences Laboratory, Northeastern University   **Boston, MA**
Research Assistant   May 2016 - Present

- Use feature selection and clustering to analyze personality traits as a predictor of prosocial behavior
- Assist in development of project website and data visualizations of user demographic information
- Assist in development and implementation of experimental protocols in study with over 300 participants
- Work with participants to collect physiological and experience sampling data over two months

HACKATHON EXPERIENCE

Gotta Go Real Fast, *HuskyHacks (2016):* Unity racing game using a recorder as a controller (Winner - Best Design)
LED Pong, *Hardware Club Hackathon (2016)*: LED Matrix version of the classic game (Second Place)
Segway Bot, *HuskyHacks (2016):* Autonomous, self-balancing Segway robot (Winner - First Hack)
EduSmart, *PennApps (2016):* Tutoring web app that uses facial recognition to determine student progress
Daily Briefing, *McHacks (2017):* Prints news articles, a daily joke, the weather, and custom reminders every morning

WORK EXPERIENCE

Target Corporation   **Brookline, MA**
Team Member   June 2016 - Present

- Assist in sales and guest services and train new employees on store policy and sales techniques
- Maintain an organized backroom and deliver accurate product and label placement

Jumpstart   **Boston, MA**
Corps Member   September 2015 - April 2016

- Implemented early childhood curriculum, supported family involvement, promoted children's language and literacy skills through ongoing relationships, and increased adult support in the learning environment
- Received intensive training and professional development in early childhood theory and practice and collaborated with a team of eight to plan twice weekly in-classroom activities

INTERESTS

Music composition, film production, web development, intermediate German, euphonium, running, tycoon games