

David Muniz Macias

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Personal Statement

Energetic, Ambitious engineering physics graduate with mature and responsible approach in developing innovation, passion for learning new skills, and overcoming challenges.

QUALIFICATIONS/ SKILLS

- **Programming Languages:** *Proficient* in Python, Java, HTML, and CSS, JavaScript(React), *Working Knowledge* of C#, C++, and SQL
- **Spoken Languages:** English, Spanish
- **Software:** Certified in Autodesk Inventor Professional, Proficient in Autodesk Fusion 360, Unity, and Git

EXPERIENCE

HealthStream

July 2019 - January 2020

Software Developer Intern

- Created a new Sharepoint site using biomimicry to help better communication and documentation.
- Developed a Ticket System workflow for Database and Configuration Management.
- Installed, configured, and upgraded Sharepoint sights for Database, Configuration Management, Quality Assurance, and Business Analytics Team.

Project Cure

May 2019 - August 2019

Biomedical Engineer Intern

- Gained a firm grasp of debugging and repairing malfunctioning biomedical equipment.
- Used Autodesk Fusion 360 to 3D printing missing parts on patient monitors.
- Created a Json dataset of patient monitors with links to their manuals and a user friendly website using Javascript, HTML, and CSS to help easy access to common patient monitors manuals for volunteers.

EDUCATION

Belmont University – Nashville, TN

Bachelor of Science in Engineering Physics

Graduated April 2021

LEADERSHIP

Belmont, Engineering, Architecture, and Robotics (B.E.A.R.)

October 2017 - April 2021

Club Founder and President

- Leading and training club members to become critical thinkers, innovators, and problem solvers.
- Reaching out to local technology companies and inviting them to Belmont's campus for public speaking events.

ACTIVITIES

EmojiMeaning React/Python Project (<https://github.com/engineerDavid/EmojMeaningReactProject>)

May 2021

- Utilized Python to web scrape different websites for emojis and their meanings to create an open-source dataset.
- Built a front-end using React.js to enable users to query through different emoji meanings.

MTSU Hack- MT (Developed Web Application)

January 2019

Programmer

- Programmed a python back-end to gain a users location from a web browser.
- Assisted in programming the google maps api to estimate time of travel.

Belmont, Engineering, Architecture, and Robotics (B.E.A.R.)

Augmented Climbing Game lead designer and engineer

January 2018 - May 2020

- Led a team of eight people to build an Augmented Reality Climbing Game to improve interest in climbing wall activities.
- Developed a BubblePop Game using C# and Unity. Used Windows Kinect Depth Sensor to detect players movement

Smart Bird Feeder lead designer and engineer

January 2019 - August 2019

- Developed a smart bird feeder using OpenCV and Python running on a Raspberry Pi. Trained a Bird image recognition model to detect birds and send the images to a gmail account using SMPT.
- Designed BirdFeeder Model in Fusion 360.

AWARDS

Bridges to Belmont Scholarship

2017 - 2021