

# EVAN WANG

evanzwang@gmail.com ◦ 240-704-5699

## EDUCATION

---

**MBHS Science, Mathematics, and Computer Science Magnet Program** *Aug. 2017 - June 2021*

3.95 Unweighted GPA ◦ 4.72 Weighted GPA

**Math:** MV Calc, Diff Eq, Statistics, Linear Algebra, Discrete Math

**Computer Science:** Algorithms and Data Structures A/B, Analysis of Algorithms, Computational Methods

**Engineering:** Principles of Engineering A/B, Materials Science

**Sciences:** Optics, Astronomy, Thermodynamics, Organic Chemistry, Quantum Physics, Neuroscience

## RESEARCH EXPERIENCE AND PROJECTS

---

**Self-Supervised Monocular Depth Estimation with Mr. Quinn Shen** *May 2020 - Oct. 2020*

Created a deep convolutional neural network architecture and training pipeline to take in a single image and predict a per-pixel depth map of that image. Expanded on previous research in the topic by studying the effects of adding different network architectures and color spaces.

**GU Medical Center: Internship with Dr. Albert J. Fornace Jr** *June 2019 - Aug. 2019*

Performed data analysis on lipidomic and transcriptomic data with Python, using raw data preprocessing techniques and machine learning classification algorithms like nearest shrunken centroids. Also obtained hands-on experience with fundamental biological laboratory technologies and procedures, like cell culture techniques.

## SKILLS

---

<b>Programming Languages</b>	Python 3, Java, JavaScript, MATLAB, C#, C++, R
<b>Frameworks</b>	OpenCV, NumPy, pandas, scikit-learn, Django, PyTorch
<b>Tools and Software</b>	L <sup>A</sup> T <sub>E</sub> X, Unity, MS Office
<b>Operating Systems</b>	Windows, Linux

## AWARDS AND EXTRACURRICULAR ACTIVITIES

---

USACO competitor (Platinum Division)	<i>2019 - present</i>
Science Montgomery 2 <sup>nd</sup> place (computer science category with monocular depth project)	<i>2021</i>
Montgomery Blair Informatics Tournament organizer	<i>2020 - 2021</i>
Montgomery Blair Computer Team captain	<i>2020 - 2021</i>
American Computer Science League 3 <sup>rd</sup> place (national computer programming competition)	<i>2018</i>
MBHS Boys Varsity Volleyball Team	<i>2019 - 2021</i>
Produce and process songs and audio, along with mixing together existing music live	<i>2018 - present</i>

## VOLUNTEER EXPERIENCE

---

Counsel for the CCACC Volleyball Clinic, helping children learn and improve at volleyball, in addition to organizing and leading their respective teams. *2019 - 2020*

Help and serve senior citizens and hospital patients by performing piano music as a volunteer for the Tacy Foundation. *2015 - 2020*