Dylan Ryan

Ryan.1989@osu.edu | (614) 869-8705 | Columbus, Ohio
LinkedIn | Github | Personal Website

EDUCATION

The Ohio State University, Honors College — **Columbus, OH**
Computer Science and Engineering — *August 2024 – May 2027*

- GPA: 4.00
- Recipient of Governor's and Maximus merit scholarships

Bexley High School — **Columbus, OH**
August 2020 – May 2024

- 35 ACT score. 36 math, 36 science, 35 writing, 34 reading
- 6 AP exam scores with grade 5, 4 AP exam scores with grade 4
- Summa Cum Laude, weighted GPA 4.70

WORK EXPERIENCE

Ohio State University — **Columbus, OH**
Research Intern, AIDRIN — *November 2024–Current*

- Implemented parallel structure task execution using **Celery**, **Redis**, and **Flask**
- Redesigned frontend to streamline UX/UI and increase performance using **JavaScript**, **HTML**, and **CSS**
- Expanded supported file types from CSV to include Excel, NumPy, HDF5, and JSON using **Pandas**

ACTIVITIES & INVOLVEMENT

Scarlet Investment Group — **Columbus, OH**
Quant team member — *September 2024 – Current*

- Met weekly with group members to discuss the state of the market, current events, and team portfolio
- Created a heatmap visualization of a stock's Black-Scholes model using Python, NumPy, and Pandas.

Pi Kappa Phi — **Columbus, OH**
Active Member — *January 2025 – Current*

- Attended weekly chapter meetings and philanthropic events. Participated in 60 hours of community service

PROJECTS AND INDIVIDUAL WORK

ResearchSphere — *React, TypeScript, Next.js, Flask, AWS*
Collaborated with UVA students to develop a crowdfunding platform for university research labs. Built a full-stack web application with a Flask backend and React/Next.js frontend, deployed on AWS LightSail.

Task Manager Desk Lamp — *SolidWorks, Embedded Systems, Arduino*
Designed and 3D-printed a custom desk lamp that connects to the OSU dashboard, dynamically adjusting brightness based on daily task completion status.

Wall-Mounted Light Matrix — *C++, Arduino, Electrical Design*
Engineered a 3'×2' display using 330 Neo Pixel LEDs arranged in a 22×15 grid. Programmed animations in C++ for an Arduino Uno; implemented a parallel power design maintaining a stable 5.0 V / 2.4 A output. Housed in wood with frosted plexiglass diffusion for a polished aesthetic.

SKILLS AND INTERESTS

Languages: Java, Python, C, C++, HTML, CSS, JavaScript, MATLAB

Software: VS code, Linux, Eclipse, MATLAB, Arduino, Ghidra, Onshape, Adobe Creative Cloud, Microsoft Suite

Hobbies: Pencil drawings and acrylic painting. Goal is to represent complex beauty and express emotions

Gym: Go to the gym 3 times a week and run 3 times a week, running first full marathon in early spring