

Yuhwan Lee

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EDUCATION

Centennial High School

Weighted GPA: 4.79

Ellicott City, MD

Sept. 2017 – Present

- Test Scores: SAT - 1540 (Math: 800, R/W: 740), ACT - 35, SAT Subject Tests: Math II - 800, Biology - 780
- Relevant Coursework: AP Computer Science A, Advanced Object Oriented Design, Advanced Data Structures, AP Calculus AB, AP Calculus C, Discrete Mathematics, AP Statistics

EXPERIENCE

Math Tutor

Kumon of Owings Mills

Aug. 2020 – Present

Owings Mills, MD

- Tutored students in various math topics ranging from Algebra to Calculus
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

PROJECTS

Tutoring Request Manager | *Python, Webhooks, Amazon S3, Discord API*

- Developed a Discord bot using Discord.py, a Python wrapper for Discord's API
- Used webhooks and Google Forms to receive and format data in real time
- Stored and updated data using an Amazon AWS S3 Bucket

Facebook Posting Bot | *Amazon EC2, Facebook Graph API, Reddit API, Python*

- Developed a Python script to take hot posts from Reddit and post them on Facebook Pages
- Implemented the Reddit API to download images and videos and used the Facebook Graph API to upload
- Utilized an Amazon AWS EC2 Linux instance to continuously run the script hourly

MedNet | *Google Cloud, Firestore, Twilio API, Flask, Python*

- Developed a web application designed to connect hospitals in need of medical supplies with medical suppliers
- Implemented Google Cloud to host a Flask server and a MySQL instance
- Integrated the Twilio API to allow users to request supplies through text

Sorting Visualizer | *Java*

- Developed a Desktop application to demonstrate different sorting algorithms and their efficiencies

EXTRA-CURRICULAR ACTIVITIES

FTC Robotics - Lead Programmer | *Java, OpenCV, TensorFlow*

Sept. 2018 - Present

- Developed code for the robot, implementing the various tasks in competition
- Organized the code base with strong adherence to object oriented design principles
- Won several team awards (Inspire Award, Connect Award)

Pyoneers - Education Committee | *Python*

Aug. 2020 - Present

- Developed curriculum and weekly questions for students learning Python
- Created a Discord Bot to manage and grade submissions for the club-wide programming tournament

WebPoint - Programmer | *HTML, CSS, Bulma, Bootstrap*

July 2020 - Present

- Assisted in the development of multiple websites for local businesses

TECHNICAL SKILLS

Languages: Python, Java, HTML/CSS

Developer Tools: Amazon AWS EC2, Amazon AWS S3

Awards: National AP Scholar, 1st Place QuHacks 2019, Principal's Honor Roll, National Merit Commended Student