Katherine Shen

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EDUCATION

Georgia Institute of Technology   Aug. 2020 – Expected May 2024
Bachelor of Science in Computer Science   Atlanta, GA

   Coursework: *Computer Organization, Applied Combinatorics,* Objects & Design, Discrete Mathematics, Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra

River Hill High School   Sep. 2016 – May 2020
High School Diploma   Clarksville, MD

   Rank: 5 of 298

SKILLS

Languages | Python, Java, JavaScript, HTML/CSS
Technologies | Websockets, API, Event Handling, React
Tools | Figma, Notion, Trello, Git, Adobe Photoshop

EXPERIENCE

Johns Hopkins University Applied Physics Lab   Jun. 2018 – Jun. 2020
Computer Science ASPIRE Intern   Laurel, MD

- Reduced average time to locate a parking spot on APL campus by applying OpenCV and image recognition methods to analyze parking spaces dispatched to drivers via a mobile app
- Experimented with natural language processing developing a program to classify relationships between television subtitles and emotional context utilizing data analysis and NLP
- Developed a pseudo-GPS system with a Raspberry Pi to reduce time taken to find lost devices by tracking objects through local WiFi networks

PROJECTS

gamelettr | *Python, Websockets, Event Handling, REST APIs*   Jul. 2021
- Provides quick look-up to regional and global esports tournament information through a Discord bot
- Consumed lolesports API to get live data from Riot Games on tournament information; formatted by utilizing data structures sent to Discord using the discord.py library
- Developed a scheduler to deliver notifications with a stream link for upcoming matches for ease of viewing

Energy Consumption Analysis (2020 HackGT 7) | *Dash, Plotly.js, Pandas, numpy*   Oct. 2020
- Contributed to a decision tree anomaly detection model built to detect energy usage anomalies
- Visualized data output by from decision tree using Plotly graphs and a Dash app

EXTRACURRICULARS

GT Esports   Sept. 2020 – Present
Vice President, Head of Creative Department, Treasurer   Atlanta, GA

- Reorganized organization structure by interviewing and onboarding new staff, creating new procedures, and promoting member engagement
- Led a team of seven people creating website and social media designs; created graphics on an ad-hoc basis for large organization hosted events
- Managed budget and allocated funds for competitive teams, various events, and organization costs