Katherine Shen

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(443) 766-2382

EDUCATION

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

Concentration: Media/Graphics & Information Internetworks

Courses: *Computer Architecture*, *Applied Combinatorics*, Objects & Design, Discrete Mathematics
Data Sturctures & Algorithms, Object-Orientated Programming, Linear Algebra

River Hill High School   Clarksville, MD
High School Diploma (Rank 5/298)   *Sep. 2016 – May 2020*

EXPERIENCE

Georgia Tech Research Institute   Atlanta, GA
Incoming Software Engineering Intern   *May 2022 – Aug 2022*

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

- Reduced average time for locating parking spot on APL campus with OpenCV and image recognition
- Dispatched analyzed parking spot data to drivers gathered through mobile app
- Experimented with relationships between emotional context and television subtitles using NLP techniques
- Developed lost device tracking system with Raspberry Pi by building Pseudo-GPS system with WIFi networks

EXTRACURRICULARS

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

- Restructured organization by interiewing/onboarding new staff and creating new procedures
- Boosted and promoted member engagement by implementing policies to increase member participation
- Managed creative team of 7 creating website, social media, and game-specific designs
- Integrated creative department into game sub-organizations to produce ad-hoc graphics for large events
- Managed budget and allocated funds for competitive teams, various events, and organization costs

PROJECTS

gamelettr | *Python, Websockets, Event Handling, REST APIs*   Jul. 2021

- Provided quick tournament lookup information for regional and global events through Discord bot
- Consumed Riot Games E-Sports API to get accurate, live tournament information
- Utilized formatting algorithms with data structures to display information sent to Discord using `discord.py`
- 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

SKILLS SUMMARY

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