Kenny Zheng

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Education

Georgia Institute of Technology - College of Computing Atlanta, GA

- B.S.in Computer Science *Aug. 2019 – May 2024*

- Coursework: Data Structures, Algorithms and Design, Machine Learning, Artificial Intelligence, Systems Organization and Programming, Combinatorics, Discrete Mathematics, Linear Algebra
- Activities: Chinese Student Association, Asian American Student Association, Georgia Tech Ultimate Frisbee Club

Experience

Georgia Tech Research Institute, Undergraduate Research Assistant | *Atlanta, GA* Jan. 2022 – Present

- Engineered a cutting-edge radio prototype with the innate capability to autonomously process and analyze geospatial data in **Python** sourced from Bobby Dodd Stadium
- Pioneered a smart drone with L3Harris to help Cisco Systems strengthen weak cellular 5G areas in Bobby Dodd Stadium on a team of graduate and undergraduate students.
- Led new members in developing new guide reports, wrote and developed GitHub documentation for PyTorch architecture database for efficient data scrubbing and cleaning.

Aerospace Systems Design Lab, Undergraduate Research Assistant | *Atlanta, GA* May 2021 – Dec. 2021

- Designed a volute using **AutoCad** and integrated **MATLAB** data into a JetCat engine for rigorous propulsion testing.
- Revamped a JetCat engine's applications, delivering immediate benefits to the war fighter and catering to the escalating utilization of unmanned aerial systems by soldiers and reconnaissance teams.
- Coordinated flight test program procedures, meticulously documented every detail, and ensured strict adherence to regulatory standards.

Projects

Pac-Man, Game

- Developed **Java/JavaFX** based game product that leveraged knowledge of event-driven programming to implement real-time advancements within the game.
- Utilized agile/scrum practices and object-oriented programming principles to design a Graphical User Interface(GUI) application tailored towards the client's requirements.

Stock Market Forecaster, Machine Learning Model

- Built LSTM-based Recurrent Neural Network (RNN) model in **Python** to determine long-term stock and bond gains based off U.S. financial market data from the past 150 days funneled from the yahoo finance API.
- Executed forecast model for personal investment portfolio of $2,500 with a 250% portfolio value increase in 6 months

Maze Finder, Web Application

- Designed a dynamic UI web application in **JavaScript** powered by **React.js**, purpose-built to swiftly identify the most efficient path between a designated start and end node within a grid map comprised of numerous nodes.
- Leveraged Dijkstra's algorithm, enhancing it with the capability to accommodate user-defined obstacles in the form of walls, ensuring the precise determination of the shortest viable route from start to finish while adeptly navigating around user-designated barrier nodes.

Kast XTRA, Web Application

- Programmed **React Native** web-based product designed to assist event planning firms with volunteers' registration and ticket sales.
- Established track record of aiding 5 events with more than 250 volunteers, and $36k in revenue combined from all 5 events.

Leadership

Chinese Student Association, President

- Oversaw weekly meetings of 35 board members to facilitate the planning of future events within the organization.
- Spearheaded initiative to promote outreach to new members via week of welcome events recruiting over 150 new members.
- Facilitated 15 events to promote member and campus engagement with Chinese culture.

Technical Skills

Languages: Java, Python, JavaScript, HTML/CSS, C/C++
Other Tools/Frameworks: React, Node.js, GitHub, Google Cloud Platform, PowerBI, PyTorch