

EDUCATION

Bachelor's of Science in Computer Science at Georgia Institute of Technology

May 2024

Technical Skills: Java, Python, React.js, React Native, C, JavaScript, Google Cloud, Node.js, PyTorch, PowerBI

Other Skills: Agile, CI/CD, Product Design, User Research, and Quality Assurance Testing

Coursework: Data Structures, Algorithms & Design, Machine Learning, Artificial Intelligence, Systems Organization & Programming

EXPERIENCE

Undergraduate Research Assistant: Georgia Tech Research Institute

(Dec 2021 – Present)

- 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.
- Engineered a cutting-edge radio prototype with the innate capability to autonomously process and analyze geospatial data sourced from Bobby Dodd Stadium.
- Led new members in developing new guide reports, wrote and developed GitHub documentation for PyTorch architecture database for efficient data scrubbing and cleaning.
- Analyzed geospatial data from multiple radio frequency node sensors distributed across Bobby Dodd Stadium.

Undergraduate Research Assistant: Aerospace Systems Design Lab

(Aug 2021 – Dec 2021)

- Revamped a JetCat engine's applications, delivering immediate benefits to the warfighter 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.
- Designed a volute using AutoCad and integrated MATLAB data into a JetCat engine for rigorous propulsion testing.
- Produced comprehensive detailed tests plans, reports, and documentation in compliance with Air Force research lab regulations.
- Attained mastery across a spectrum of engineering disciplines and systems including structural design, aerodynamics, stress analysis, fuel systems, and test instrumentation.

Zheng Family Business: Manager

(May 2007 – Present)

- Directed daily operations within the family business.
- Lead team of 8 employees to provide customers with exemplary service and food.
- Supervised food inventory, account, and logistics on a weekly basis with a monthly budget of \$10,000.
- Interviewed, hired, and trained new staff to join the family business.

PROJECTS

PacMan Game

- Developed 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.
- Orchestrated the version control of the product using git to allow multiple developers to work synchronously on the project.

Stock Market Forecaster

- Built LSTM-based Recurrent Neural Network (RNN) model 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 App

- Engineered a dynamic User Interface web application 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 the formidable 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

- 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

President of Chinese Student Association

- 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.