Jared Zengo

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Education

Georgia Institute of Technology	**Atlanta, GA**
Bachelor of Science in Computer Science	Expected Graduation May 2022

Concentrations: Intelligence and Modeling/Simulation
Cumulative GPA: 3.93
Faculty Honors Spring 2021

Professional Experience

Sat-Track with KPMG, *GT Junior Design Team Lead* — Jan 2021 - Dec 2021
- Collaborated with a team of 5 students and worked under KPMG Lighthouse advisement
- Developed a mobile application to calculate the individual satellites above a given aircraft
- Used React Native, Serverless, AWS Amplify, AWS DynamoDB, and AWS Lambda
- Responsible for client negotiations, balancing feasibility/scope, and AWS deployment

Parsons TSSC, *Software Engineering Intern* — June 2021 – Sep. 2021
- Worked on the FAA's TSSC-4 contract to develop a model to predict project plan pricing
- Utilized natural language processing and aspect mining
- Performed up to 34% better than human cost estimation dependent on training scope
- Containerized and deployed the application to reduce dependency issues

UGA-Hacks Capture the Flag, *Finalist* — Feb. 2019
- Finished in third place out of 76 teams of three
- Decoded encryption algorithm based on local computer date/time of data creation
- Took advantage of buffer overflow exploit to gain access to a server via user input

Cryptocurrency Mining, *Owner/Operator* — Jan. 2018 - Feb. 2019
- Programmed 42 graphics cards using ethOS for mining cryptocurrency
- Automated alert notifications via SMS to maintain a 97% uptime
- Profited $60,000 over the span of two years

Projects

Convolutional Neural Network for Image Classification, *(Python)* — April 2021
- Classified a variety of objects spanning from animals to vehicles with 80% accuracy
- Contained 18 layers and was made using TensorFlow
- Analyzed the network through a confusion matrix to visualize relationships

Neural Network using Feed Forward and Back Propagation, *(Python)* — Dec. 2020
- Created a neural network from scratch that learned via backpropagation
- Analyzed results using data sets containing car characteristics and handwritten digits
- Modified the number of perceptrons to produce the best outcome for each dataset

Search Engine, *(PHP)* — July 2020
- Created a search engine for the Georgia Tech website
- Used spiders to data-mine links to and leaving the current webpage
- Hosted links through MySQL database
- Performed a self-implemented page rank algorithm on searches

Skills and Relevant Coursework

Relevant Courses: Data Structures and Algorithms, Multivariable Calculus, Linear Algebra, Computer Organization and Programming, Objects and Design, Intro to Artificial Intelligence, Statistics and Applications, Machine Learning, Design and Analysis of Algorithms, Modeling and Simulation, Systems and Networks, Differential Equations (In-Progress), Applied Combinatorics (Spring 2022), Computer Vision (Spring 2022), Intro to Perception and Robotics (Spring 2022)

Skills: Python, Java, C++, C#, R, SQL, Assembly, Git, JavaScript, Unix, Linux, VSCode, Docker