TRAI TRAN
SOFTWARE DEVELOPER

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EDUCATION

Georgia Institute of Technology
Bachelor of Science of Computer Science (MAY 2020)
Focus: Modeling, Simulation and Intelligence.

ACTIVITIES

Georgia Institute of Technology · **Jan. 2018**
WINNER 2ND PLACE COLLEGE OF COMPUTING HACKATHON
Built a philanthropic platform using Angular and Firebase to help Organizers and Volunteers to communicate, organize, and schedule their charity works.

Georgia Institute of Technology · **Sept. 2018**
DATA SCIENCE AT GT WEB DEVELOPMENT MANAGER
Managing the Web Development team of 5 and growing. We designed and developed the full-stack of Data Science web applications for the organization spans more than 90 members.

EMPLOYMENT

MACY'S TECHNOLOGY **Johns Creek, GA**
E-commerce Infrastructure Software Developer **Jan. 2017 to Current**
- Delivered applications: Application Performance Monitoring tools, Predictive Analytic, Capacity Planning as a Service, Delivery Portal
- Designed and developed multiple different predictive analytic applications ranging from back-end to front-end. I also developed various continuous integration pipelines using Jenkins and unit tests using Karma to ensure the robustness across applications.
- Worked with System Specialists and Data Scientists to deliver Capacity Planning as a Service and other predictive solutions which aims to ensure the stability of many applications and save various budgets for the company involving predictive analytics and task automation.

PROFESSIONAL EXPERIENCE

INFRASTRUCTURE CAPACITY PREDICTIVE ANALYTIC (MACY'S TECHNOLOGY) **Dec. 2017 to Current**
Technology Stack: Angular, Python, Scikit Learn, Data Streaming Pipeline (Kafka, Dynatrace, Splunk), MySQL, Jenkins, SSH
- Delivered Features: Capacity Analysis, System Performance Analysis, System Historical Analysis
- Designed and developed full stack applications with System Specialists and Data Scientists that support capacity planning for long and short-term service of Macy's very large scale infrastructure.
- The technology aimed to bring stability to the highly complex infrastructure at a reasonable cost on the big holidays.

SYSTEM PERFORMANCE PREDICTIVE ANALYTIC (MACY'S TECHNOLOGY) **Jan. 2017 to Dec. 2017**
Technology Stack: Angular, Python, Scikit Learn, Data Streaming Pipeline (Kafka, Dynatrace, Splunk), MySQL, Jenkins, SSH
- Delivered Features: Metric Prediction, Metric Anomaly Detection, Benchmark Analysis, Holistic Analysis.
- Designed and developed application that provided the ability to predict and benchmark various performance metrics that are critical to the Macy's business model and system's infrastructures.
- The application provided System Analysts insight into the highly complex of enterprise infrastructure, and the ability to resolve complex issues.

BUZZCOURSE (BUZZCOURSE.COM) **May 2018 to Oct. 2018**
Technology Stack: Angular, Firebase, Nodejs, Cheerio Web Crawler, Artificial Intelligent Algorithms
- The app provides an automated scheduling platform for Georgia Tech students. Reducing from hours of finding schedule down to minutes. The application reached out to more than 700 students across campus and saving hundreds of hours.
- I lead a team of 3 Computer Science students to design and develop the full stack scheduling platform.

BEST BARGAINS (BEST.BARGAINS) **Mar. 2017 to July 2017**
Technology Stack: Vue.js, Node.js, Firebase
- Best bargain is a platform that provides the best and cheapest deals that can be found from major vendors such as Amazon, Walmart, Best Buys.
- Designed and developed mainly the front end using Vue for the application. The app has reached out to tens of thousands of users and still growing.

VIP AUTOMATED ALGORITHM DESIGN **Aug. 2018 to Current**
Technology Stack: Python, Nodejs, Firebase, MySQL, Genetic Programming Framework, Machine Learning Framework
- Performed data analysis, data preprocessing and applied multiple Machine Learning models such as Decision Tree, KNN, SVM, and Neural Networks.
- Designed and developed real-time data pipeline streaming from Coinbase GDAX platform.
- Applied DEAP Genetic Programming concepts such as Pareto Frontier, Multi-Objective optimization to improve model's performance, multi-processing models using workers and networking concept.