George Ye

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Education

Georgia Institute of Technology   *Atlanta, Georgia*
- Masters of Science, Computer Science   *Expected July 2023*

Georgia Institute of Technology   *Atlanta, Georgia*
- Bachelors of Science, Computer Science | Finance Certificate   *May 2022*
- Dean's List
- Highest Honors, GPA: 3.95/4.0

Skills

Languages: Python, Java, NodeJS, C++, R, HTML5, CSS
Proficiencies: ReactJS, Git, MySQL, AWS, MongoDB, Tensorflow/Keras, Scikit-Learn, Express, Docker
Concepts: Machine Learning, Cloud Computing, APIs, Algorithm Design, Data Structures, OOP, Version Control

Work Experience

Google Software Engineer Intern   *August 2022 –November 2022*
Google Pay   *Sunnyvale, CA*
- Developed a self-service, publish/subscribe notification infrastructure for anomaly detection alerts and insights
- Integrated notification infrastructure with dashboard for users to subscribe to anomalies they care about
- Improved user notification experience through reducing false positives, auto-tuning parameters, etc.

Cowen Derivatives Summer Analyst   *June 2022 – August 2022*
Options Desk   *New York City, NY*
- Developed and automated python scripts for minute-minute analysis on earnings, CPI prints, and Fed minutes
- Analyzed options trade ideas based on implied vs. realized vol, vol skew, and IV percentile
- Developed and automated python scripts for creating custom indices on implied correlation for SPY vs. single stock, SPY vs sectors, and sectors vs. single stock

Southwest Airlines Software Engineer Intern   *January 2022 – April 2022*
Flight Data Domain   *Atlanta, GA (Remote)*
- Designed and built events streaming system for processing passenger and flight event data
- Utilized Java, Apache, and AWS for real time event processing for unbounded, time-sensitive streams of data

Amazon Software Engineer Intern   *June 2021 – September 2021*
AWS FinTech   *Atlanta, GA (Remote)*
- Built an efficient cleanup utility to cleanup 120 million+ data items from tables and file systems in parallel
- Utilized complete cloud integration with AWS Lambda, Step Function, DynamoDB, S3, Events, and CloudTrail
- Planned and created a low-level design document working backwards from the customer's perspective

GTRI Software Engineer Intern   *May 2020 – December 2020*
Georgia Tech Research Institute   *Atlanta, GA (Remote)*
- Built inventory management app for business operations team to track 1000+ assets
- Utilized ReactJS and Material UI to build administrative dashboard to track data and analyze trends
- Developed in NodeJS to create REST API routes, session management, and security middleware
- Deployed apps on servers through Docker containers/Kubernetes

Projects

Automated Machine Learning Research Team   *January 2021 – May 2022*
Python
- Focused on using auto machine learning based on multi-objective genetic algorithms to improve state of the art models in NLP and portfolio optimization
- Developed infra and framework for analyzing time series analysis and stock portfolio optimization in tensorflow
- Performed neural architecture search for deep learning models to solve NLP problems such as QA with tensorflow
- Tested various machine learning models such as neural networks, support vector machine, linear regression
- Created visualizations showing multi-objective AUCs, pareto fronts, and confusion matrix for various models
- Presented research findings with statistical tests for significance

Coding Web App   *August 2020 – October 2020*
ReactJS, NodeJS, MongoDB
- Personal project to develop an online code compiler and coding practice web app
- Serves as an online compiler and coding question for Java, JavaScript, and Python