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: Java, Python, JavaScript, NodeJS, C++, R, HTML5, CSS
Proficiencies: ReactJS, Express, MySQL, AWS, MongoDB, Tensorflow/Keras, Scikit-Learn, Git, Docker
Concepts: Machine Learning, Cloud Computing, Object Oriented Programming, Algorithm Design, Data Structures

Work Experience

Google Software Engineer Intern *August 2022 –November 2022*
Google Pay *Sunnyvale, CA*
- Developing an automated anomaly detection infrastructure to query, store, and notify users on insights of major shifts in anomaly detection patterns

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
- Utilized Git version control with Gitlab
- Followed software development lifecycle using agile/scrum methodology and performed code reviews

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 Java and Typescript SDK 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
- Tested all code with mock unit testing, integration testing, and embedded testing
- Collaborate with full SDEs on extensive code reviews and project design
- Presented finished and working utility demo to AWS FinTech executives

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
- Designed large scale database schemas based on stakeholder requirements
- Deployed apps on servers through Docker containers/Kubernetes

Projects

Machine Learning Research Team *January 2021 – May 2022*
Python
- Focus on using auto machine learning based on genetic algorithms to improve state of the art models
- Develop framework for analyzing time series analysis and stock portfolio optimization
- Perform neural architecture search for deep learning models to solve NLP problems such as QA.
- Test various machine learning models such as neural networks, support vector machine, linear regression etc.

Hackathon @ Georgia Tech *October 2020*
3rd Place
- Developed prototype social app for hospital patients to receive/provide social and resource support during inpatient care during COVID and limited visiting hours

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

Scene Recognition with Machine Learning *May 2020 – July 2020*
Python
- Performed multiclassification on MIT Places dataset using machine learning