Euijun Choi

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Education

Georgia Institute of Technology — Atlanta, GA
BS/MS Computer Science *GPA: 4.0* — Aug 2019 - May 2023

Work Experience

Amazon — Seattle, WA
Software Development Engineer Intern — May 2021 - Aug 2021

- Worked in Herd team, which is a workflow-orchestration engine that powers critical Amazon functions like order processing, fulfillment center operations, Alexa backend and many more
- Converted an inefficient Herd metrics publisher (HMP) into a low-latency workflow system, which allowed Herd to publish faster and provide better visibility to clients' workflows
- Developed a new Amazon service for HMP from the ground up, used Java with Herd engine API to make the system and used AWS ECS instances to create and manage the environments

U.S. Express — Virtual
Software Engineer — June 2020 - Aug 2020

- Analyzed deadhead common routes by compiling trip legs, comparing truck and load balances and RPTM at various zones using Python, Pandas, Numpy and Cartopy
- Discovered an error in the dataset where some of the leg routes were duplicated with different truck IDs
- Suggested new routing system that was implemented and conserved company's revenue

Georgia Tech Research Institute — Atlanta, GA
Undergraduate Researcher — Aug 2019 - May 2020

- Dockerized a binary packer identification system that will be deployed at GTRI Apiary which receives about 100,000 malwares a day
- Created a Celery worker system with a frontend hosting REST API structured with RabbitMQ and MongoDB
- Using Python, created a filtering system for memory dumps that filters out irrelevant information of the binary such as windows loader

Georgia Institute of Technology — Atlanta, GA
PLUS Leader for Linear Algebra — Aug 2020 - Dec 2020

- Responsible for planning and facilitating weekly review sessions and providing 1-to-1 tutoring sessions to MATH 1554 students

Projects

Tennis Ball Tracking Drone *Python* — Apr 2019

- Programmed a DJI drone to track a tennis ball using Python and Tello SDK
- Fed the video input HSV values through OpenCV Cascade Classification
- Using image coordinates, the drone adjusted its position through Tello SDK commands

Linear, Multi-variable, Logistic Regression Models *Python* — Dec 2018

- Converted various mathematical regression equations into a trainable Python model using Numpy
- Tested the model on Kaggle's Titanic data and predicted the survival rate of each passenger

Skills

Programming Languages: Python, Java, C++, Git

Awards

Scholastic Art Awards National Silver Medal, Assistant Concertmaster at New York Youth Symphony