

EUIJUN CHOI

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EDUCATION

Georgia Institute of Technology

BS/MS Computer Science *GPA: 4.0/4.0*

Atlanta, GA

Aug 2019 - May 2023

WORK EXPERIENCE

Amazon

Software Development Engineer Intern

Seattle, WA

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, especially for Alexa data internal client which the previous HMP had trouble keeping up with its data size
- Developed a new Amazon service for HMP from the ground up, which involved creating compute units with AWS HEX, setting up connections using AWS VPC, Route 53, and setting up security with CloudAuth; used Java with Herd engine API to make the system and used AWS ECS instances to create and manage the environments

U.S. Express

Software Engineer Intern

Virtual

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

Undergraduate Researcher

Atlanta, GA

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

PLUS Leader for Linear Algebra

Atlanta, GA

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

Python, Java, C++, Git

AWARDS

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