

Aki J Tsuchida

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US and JP Citizen

Objective

Fourth-year industrial engineering major, computer science minor, looking for a full-time data science role

Education

Georgia Institute of Technology • Atlanta, GA Expected graduation 05/2023
Candidate for Bachelor of Science in Industrial Engineering with a concentration
in Analytics and Data Science and a minor in Computing and Intelligence
4.00 Major GPA, 3.95 Cumulative GPA

Experience

Machine Learning Research Intern • NTT • Mitaka, Japan 01/11/2022 – 07/29/2022

- Coded an environment in Python for the Continuous-Time Inventory Routing Problem (M.S. Bose)
- Developed a reinforcement learning model capable of learning a policy in the environment (Dr. Ted)
- Conducted tests to assess different variations of the actor-critic-based model
- Submitted research paper “Dr. Ted and M.S. Bose Can Rescue Telecommunications Services from Disaster” to IEEE International Conference on Communications 2023

Business Analyst Intern • COX Communications • Atlanta, GA 05/17/2021 – 08/06/2021

- Developed a tracking tool in Quickbase for all projects in facility support services
- Created database structure, entry forms, and report dashboards from scratch
- Lead meetings to obtain input from users inside and outside of the direct team
- Trained participants and admins on the usage of the application

Statistics and Applications Undergraduate Teaching Assistant • Georgia Tech 02/01/2021 – 05/05/2021

- Helped students understand material through office hours and question platform
- Created practice question sets and their corresponding solutions
- Provided solution videos for quizzes that guide students through the problems

Personal Programming Projects 05/04/2020 – 07/29/2022

- Fully functional Tetris game in Python that prints to the console
- 2048 game in Python that prints to the console
- 3x3 slide puzzle solver that utilizes an A* searching algorithm
- Sudoku solver using both consistency arguments and backtracking

Skills

Programming Languages: Python, Java, SQL, OPL, R, LaTeX
Software/Libraries: Microsoft Office, Gurobi, GAMS, MySQL, Quickbase, Simio, PyTorch, DOcplex
Languages: English (native), Japanese (native)
Interests: Running (GT Runnin' Wreck), Swimming, Biking, Tetris

Relevant Courses

Data Input/Manipulation • Intro Database Systems • Accounting • Probability With Applications • Basic Statistical Method • Engineering Optimization • Stochastic Manufacturing and Service Systems • Simulation Analysis and Design • Regression/Forecasting • Constraint Programming • Decision and Data Analytics • Advanced Optimization • Supply Chain Modeling: Logistics • Online Learning and Decision Making • Data Structures and Algorithms • Computer Organization and Programming • Intro Artificial Intelligence • Intro Perception and Robotics • Machine Learning