JAXON BAILEY

SOFTWARE ENGINEER, NYC

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SKILLS Java	Bootstrap		English	
Python	React.js		Japanese	
Javascript HTML/CSS	jQuery Diange		Spanish	
Matlab	Django Express/Node.js			
Matiab	Express/Node.js			
EDUCATION —				
University of Pennsylvania, School of Engineering and Applied Science				2022 – Now
Master of Computer Science (MC	CIT)			
University of Texas at Austin, Cockrell School of Engineering				2015 – 2018
Bachelor of Science, Mechanical Engineering				
PROJECTS —				
Q-LEARNING AGENT				2023
Designed an AI agent that learns through interactions with its environment via trial & error.				
Navigated a stochastic grid world, avoiding pitfalls to reach a goal terminal. The same agent				
also attained a near-perfect win rate in Pacman by exploiting a weighted feature function.				
AI DOMINO PLAYER				2023
Developed an artificially intellige	nt player for a one-c	on-one dominoes gar	ne in Python.	
Implemented a game tree and m	ninimax decision rule	es to search for the be	est plays.	
OBSTACLE NAVIGATION PROGRAM				2023
Implemented a Python program to solve the problem of navigation on a two-dimensional				
grid with obstacles. Employed A* search to improve on breadth-first search.				
Flu Tweet Analysis				2023
Designed a Java program using N-tier architecture to analyze Twitter data, look for tweets				
regarding occurrences of the flu, and estimate where the disease is affecting people. Used				
JSON.simple to read JSON data. Applied Singleton and Factory design patterns.				
WAAVES, Duvauchelle Labs, University of Texas				2018
Co-developed a Matlab program that parses and processes audio data for animal research				
labs. Implemented a GUI, greatly	improving ease of t	use and increasing pr	ogram stability.	
WORK —				
ENGLISH LANGUAGE COACH, Self-Employed, Remote				2018 – Now
Coached EFL learners of all ages from 30+ countries and assisted throughout life processes				
like job interviews, college admissions, and the cultural assimilation of immigrants to the US.				
LEAD TEACHER, Human Academy, Tokyo, Japan				2021-2022
Developed and taught original English immersion curriculum for a prestigious private JHS				
in the Tokyo area. Trained teache				
RESEARCH ASSISTANT, Duvauchelle Labs, Austin, Texas				2017 – 2021
Co-developed an audio processing program for use in animal research labs. Automated				

data aggregation/file management tasks with Python, saving hundreds of work hours.