JAXON BAILEY

SOFTWARE ENGINEER, NYC

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SKILLS

Java		Bootstrap		English	
Python		React.js		Japanese	
Javascript		jQuery			
HTML/CSS		Django			
Matlab		Express/Node.js			

EDUCATION

UNIVERSITY OF PENNSYLVANIA, School of Engineering and Applied Science   *2022 – Now*
  Master of Computer Science (MCIT)
UNIVERSITY OF TEXAS AT AUSTIN, Cockrell School of Engineering   *2015 – 2018*
  Bachelor of Science, Mechanical Engineering

PROJECTS

AI DOMINO PLAYER, UPenn MCIT   *2023*
  Developed an artificially intelligent player for a one-on-one dominoes game in Python.
  Implemented a game tree and minimax decision rules to search for the best plays.
OBSTACLE NAVIGATION PROGRAM, UPenn MCIT   *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, UPenn MCIT   *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.
SIMON, Web Development Bootcamp, Dr. Angela Yu   *2022*
  Built a web version of the classic memory game Simon using Javascript, HTML, and CSS.
  Designed custom CSS animations. Implemented key listeners and game sounds.
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 use and increasing program 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 teachers and served as liaison between school and management.
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.