Stephen Duke

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OBJECTIVE

Creative software engineer & hardware guru driven to contribute to the productivity and culture of a diverse team, while deepening and sharpening my development skills.

SKTLLS

2KITT2							
☐ Software: C++, JavaScript, Node.js, Git, AWS, Web Sockets, IoT, Tensorflow, HTML, R, Python, SQL, NoSQL, ROS	Three.js						
☐ Hardware: Arduino, Raspberry Pi, AT, ESP32, ARM, Steppers, Motors, LED, Lase	rs						
☐ Design: SketchUp, Blender, Gazebo, GIMP							
☐ Fabrication: 3D Printing, CNC, Welding, Carpentry							
EXPERIENCE							
FROM EARTH - 06/2019 - Present							
Freelance Software Developer							
Selected Work:							
☐ Built and developed cross-platform research software for the psychology depa							
Stephen F. Austin State University that tracked user interaction to test sac	cadic ey						
movement under different levels of distraction - Node.js and JavaScript.							
☐ Developed a high-impact electronic device for enhanced board game play using atmega328 in C++ that used bit manipulation from accelerometer readings to c true random number generator patreon.com							
 Built and deployed a Node.js IoT server on AWS that used a REST architecture connect a suite of devices that controlled an array of motors, relays and sentences. 							
☐ Built and developed the hardware and C++ software for a motor control and feedback system in a drone prototype.							
☐ Fabricated an interactive & modular automata structure to teach students about	ut STEM.						
The structure contained an array of arduino's, motors, LED's and pulleys -							
youtube.com							
OFCOURSE.IO - 04/2020 - Present							
Instructor - Human Computer Interaction							
☐ Teach students to create a full stack environment that interacts with custom	built						
hardware and sensors using HTML, JavaScript, Node.js, and Arduino.							
DDOJECTS							

PROJECTS

2nd Place in AI Mastermind Competition using a Genetic Algorithm written in Lisp
Genetic Algorithm for generating cellular automata patterns that gravitate toward specified targets written in Python & JavaScript.
Contact tracing contract on the Ethereum network for tracking STI's written in Solidity.
Designed and built portable electrical and data connections for over 10000 sq ft office in 4 World Trade Center conforming to NYC electrical code.
Move Different Exhibition - 8'x8' interactive & touch-sensitive LED structure - Raspberry Pi & Python.

EDUCATION

Bachelor of Computer Science CUNY - Hunter College 04/2016 - 12/2019 Robotics Nanodegree Udacity 07/2020 - PRESENT