

Robin Lee Simpson

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EDUCATION	AS Electrical & Computer Engineering Diablo Valley College - Pleasant Hill, CA GPA: 3.9	Expected 2023
EXPERIENCE	Argonne National Laboratory <ul style="list-style-type: none">● Develop a standalone application that geolocated and simulated critical infrastructures within any area.● Utilized deck.gl, cytoscape.js, dash, heroku, and python in order to create a 3D arc/heat map for datasets.● Implemented csv, json, and web scraping in order to fetch data for simulation and eventual machine learning. Steam Coders <ul style="list-style-type: none">● Teach computer science for K-12 ranging from beginner to advanced levels.● Assist the main instructor in preparing class syllabus, lesson plans, and other materials.● Educate students in 8-16 week programs in both 1-1 tutelage to 20+ students.● Instruct with Python, Java, C++, and Scratch depending on curriculum.	Intern June 2022 - August 2022 Assistant Instructor February 2022 - June 2022
SKILLS	Highly skilled and proficient in: Python, C++ Proficient in: Java, Javascript, HTML Tools/other skills: Github, Visual Studio Code, Pycharm, IntelliJ, CNC, CAD/CAM	
PROJECTS	Project sources at: https://github.com/teachmetw https://teachmetw.github.io <ul style="list-style-type: none">● 3D Visualization of DOE 16 Critical Infrastructures<ul style="list-style-type: none">○ Developed for Argonne National Laboratory○ A web and standalone application that scrapes data regarding critical infrastructures, geolocates, and simulates their connections.○ Relies on web data (automatic) or manually imputed dataset via csv.○ Modifiable and flexible● TeachMeTW.github.io Website<ul style="list-style-type: none">○ Developed with HTML, CSS, JS○ Showcases repository with images, videos, and explanation.● SQL Remake in C++<ul style="list-style-type: none">○ Create databases from scratch or read existing txt files in SQL format.○ Read SQL commands from file or user input.○ Utilized data structures that were built from scratch such as maps, tokenizers, parsers, queues.	
OTHER EXPERIENCES	Clark Magnet HS and Glendale Community College <ul style="list-style-type: none">● NIMS Certification in CNC CAD/CAM, Milling, and Lathe● Operated HAAS Super Mini Mill 2, HAAS DS-30y, Lathes, CNC Router● 3D Engineering Systems: Makerbot 3D, Formlabs 3L, Createbot F1000	August 2016 - June 2020