Will Farhat – Resume

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Education
- *University of Southern California* – B.S. in Computer Science, May 2025
- *Harvard-Westlake High School* – Class of 2021, Honor Roll
- *BSA Troop 355* – Eagle Scout

Experience
- USC QED Research Lab - Software Engineering Intern, *February 2021 – June 2021*
  - Designed Multi-Modal Visualizer, an automated data visualization tool for medical researchers to collect and analyze time-series data from different sensor streams
  - Using Python, ReactJS, and the TIG Stack (Telegraf, InfluxDB, and Grafana) deployed with Kubernetes
- Tiny Headed Kingdom – Fullstack Developer, *June 2020 – February 2021*
  - Programmed Tiny Headed Game, a cross-platform multiplayer video game for Tiny Headed Kingdom, an LA-based stuffed animal and merchandise startup
  - Responsibilities included backend programming in NodeJS and PHP, frontend programming in GameMaker Studio 2, database and server deployment on AWS, and all in-game UI and art design for the game
- HW Inc – Organizer and Instructor, *November 2018 – June 2021*
  - Managed tech and operations at Harvard-Westlake's entrepreneurship summer camp
  - Teaching entrepreneurship lessons about competitive landscapes, branding, and
  - Designed an online video game hub called Inc Life for the camp during the Covid-19 Pandemic; enabled participants and alumni to communicate through a virtual recreation of the school library
- Leaders United for Change - Computer Science Mentor, *March 2020 – August 2021*
  - Supervising online Python tutoring sessions through Zoom for underprivileged middle school students
  - Wrote and taught an online 40-person summer camp on CS. Topics included Python, HTML, Machine Learning, and Hardware Design
- Coding With Will – Founder, *April 2021 – Present*
  - Computer Science tutoring business bringing 1-on-1 project-based learning to middle school students

Skills + Projects
- Environments – Ubuntu/Kali Linux, Windows, MacOS
- Tools – Git, Unity, AWS EC2/S3/Elastic Beanstalk, Firebase, Docker/Kubernetes, GameMaker
- Languages and Frameworks
  - Python, OpenCV, TensorFlow
    - ReMotion – 3D body tracking software
    - MultiModal Visualizer – parse CSV data to upload to InfluxDB
  - C++, C#
    - Outset – a nonlinear 2D platformer that I've been working on since August 2017
    - Companion – an out-of-control RPG made in 48 hours for the GMTK Jam 2020
    - FreehandVR – VR hand tracking software
    - MMOMaker – open-source MMO framework for GameMaker Studio 2.3
  - Java
    - Solutions for PicoCTF 2019-2021, Advent of Code 2018-2020
    - Data Structures and Algorithm studies for *AP Computer Science A* and Leetcode
  - HTML, CSS, Javascript/Typescript, ReactJS, NodeJS
    - willfarhat.com – personal website hosted on a Raspberry Pi webserver at my home
    - Coffeehouse – WebRTC powered conference calling for music sharing and virtual jam sessions