

# Ahmed "VisualPlugin" Abo-Shadi

+1 (714) 463 5142 [www.github.com/Windows81](https://www.github.com/Windows81) [aboshadi.n.ahmed@gmail.com](mailto:aboshadi.n.ahmed@gmail.com)

I am available for a full-time position (remote or in-person) from September 2023 within Orange County, California.  
I would love to work for a software company which promotes social good and nurtures coöperative relationships.

## Technical Skills

- Node.JS
- HTML5/CSS3
- Python
- PowerShell
- FFMPEG
- GNU/Linux
- Bash
- C++
- C# (.NET)
- Roblox Lua(u)
- Affinity Photo
- PHP
- FL Studio
- MySQL
- Microsoft Office
- Shotcut
- Blender
- VS Code
- OBS Studio
- OpenDocument

## Education

University of California, Irvine – 3.64 GPA and rising

BS in Software Engineering at the school of Informatics & Computer Science by 2025.

Participated at ACM; devised/presented solutions for LeetCode problems.

Started course track for M.S. in Software Engineering programme.

June 2023

Santiago Canyon College – 3.6 GPA (4.0 in major)

Majored in Computer Science; graduated with an A.A. in Liberal Arts.

Took courses in data structures; enrolled in STEM Academy.

May 2020

## Projects

GoAnimate Wrapper is a locally hosted project designed to interop with Vyond's Legacy Video Maker. With assistance from a team of community experts, Wrapper became my most significant production-level full-stack web project to date.

2019-12 / 2020-11

- Published a modern API in Node.JS to replicate server functionalities
- Reverse-engineered Shockwave Flash files and analysed legacy ActionScript code.
- Hundreds of minutes of engaging video experiences were delivered as of May 2021.
- More than 21,000 total results appear on a YouTube query for Wrapper and derivative works.

Bring Back Buffets was a mobile web app written in JavaScript with the objective to revive buffets that had to close due to Covid. This project's user-interaction model drew inspiration from how Korean barbecue establishments operate.

2021-03 / 2021-04

- Engineered separate user interfaces for customers, cashiers, and kitchen staff.
- Streamlined the Covid dining experience, allowing customers to order with their mobile devices.
- Developed a cashier system to generate unique order codes for efficient order tracking.
- Built an interface for servers to ensure timely preparation and delivery of orders to designated tables.

Röblox Script Executor is a command-line interface that makes running scripts on Röblox.

2022-07 / Present

- Built a custom syntax for script execution in Röblox on top of the existing Luau language.
- Introduced per-script parameterization, when a normal GUI wouldn't make it that easy for users.
- Created 142 predefined scripts in a sister repository, many of which have help pages.

Röblox Custom Catalogue was a prospective Free marketplace licenced under the GNU GPL.

2021-06 / 2022-05

- Drafted a sleek and modern user interface for the using Röblox Studio, sans 3rd-party libraries.
- Allows users to sell hats, accessories, and packages outside the official Röblox avatar store.

Screwaja-YuJa was a severe vulnerability in YuJa's API which has since been patched.

2022-12

- This exploit exposes all saved videos and their respective metadata.
- Reported to YuJa and found the exploit to be resolved after ~2 days.

<p><u>Time is Musical</u> is a musical adaptation of the WWV time station.</p> <ul style="list-style-type: none"> <li>- <i>Plays a unique index-based composition of five loops every minute of the day.</i></li> <li>- <i>Produced 42 unique synth loops using FL Studio 20.</i></li> <li>- <i>Constructed Python script to generate stream parameters.</i></li> <li>- <i>Streamed live on YouTube using FFmpeg's lavfi filter.</i></li> </ul>	2021-05 / 2022-02
<p><u>Webhooky</u> was a lightweight, database-driven webhook proxy project intended for Rōblox games to interact with Discord's webhook API.</p> <ul style="list-style-type: none"> <li>- <i>Made use of PHP, MySQL, and PHPMyAdmin to process and store request logs.</i></li> <li>- <i>Over 200 game developers used the service to help transfer data to Discord.</i></li> </ul>	2018-02 / 2019-09
<p><u>Windows81.github.io</u> is a personal website hosted on GitHub Pages.</p> <ul style="list-style-type: none"> <li>- <i>Compiles my creative 3D-showcasing work on Rōblox.</i></li> <li>- <i>Incorporates elements of responsive philosophy.</i></li> <li>- <i>Hand-coded using HTML and CSS, sans third-party frameworks.</i></li> </ul>	2020-05
<p><u>Tubeup</u> is a tool I wrote code for to that enabled me to efficiently re-upload a significant portion of my YouTube channel to the Internet Archive.</p> <ul style="list-style-type: none"> <li>- <i>Sifted through bugs on a payload of 234 YouTube videos.</i></li> <li>- <i>Merged fixes on GitHub to account for deleted assets.</i></li> <li>- <i>Intuitied yt-dlp's Python interface.</i></li> </ul>	2023-08
<b>Work/Community Experience</b>	
<p><u>Rōblox Tutor @ IIOC Community Center</u> <i>prospective</i>  <i>Preparing a curriculum for basic and intermediate Rōblox development</i>  <i>Establishing an audience of students aged approx. 8 through 13.</i>  <i>Carefully selecting an adequate pricing scheme according to market value.</i></p>	2023-06 / Present
<p><u>Contracted Graphic Designer @ Islamic Institute of Orange County</u> <i>et al.</i>  <i>Advertised social events with non-profits, such as Islamic Institute of Orange County and Sabil USA.</i>  <i>Designed real-estate marketing materials for Berkshire Hathaway agents.</i>  <i>Commissioned to design over 20 event fliers for non-profit organizations.</i></p>	2016-04 / Present
<p><u>Internship @ CSU Fullerton</u> <i>under the Val Tech Program.</i>  <i>Assisted in the development of a brain-computer interface with graduate students.</i>  <i>Designed user interface for mock-up calibration procedure.</i>  <i>Project coordinated by Professor Kiran George, PhD.</i></p>	2017-09 / 2018-05
<p><u>Professional Engineering Course Center</u> <i>(on call)</i>  <i>Consulted in provisioning GNU/Linux file servers for office use using Ubuntu and Samba.</i>  <i>Assisted in architectural and structural design plans of commercial and industrial sites.</i></p>	2015-06 / Present