

# Ahmed "VisualPlugin" Abo-Shadi

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I'm seeking a full- or part-time position in Orange County, California. I can work remotely or in-person. My objective is to work for a software company which promotes social good and nurtures coöperative relationships!

## Technical Skills

- Node.JS
- Python
- PowerShell
- MySQL
- OBS Studio
- HTML5/CSS3
- FFmpeg
- C++
- Documenting Stuff
- Filmora 13
- React
- Git; GitHub
- Android/Linux
- Affinity Photo
- Blender
- MongoDB
- GNU/Linux
- Docker Compose
- FL Studio
- VS Code
- Roblox Lua(u)
- Bash
- PHP
- Microsoft Office
- OpenDocument

## Education

### California State University, Fullerton

- Pursuing a MS in Computer Engineering
- Investing in a stronger emphasis in computer hardware

prospective

### University of California, Irvine

- Completed a BS in Software Engineering with a GPA of 3.671
- Enrolled at the school of Informatics & Computer Science
- Participated at ACM; devised and presented solutions for LeetCode problems
- Started course track for an MSE in Computer Engineering at CSUF

March 2024

### Santiago Canyon College

- Majored in Computer Science; graduated with an AA in Liberal Arts
- Re-took courses in data structures; enrolled in STEM Academy
- Earned a 4.0 GPA for major-related courses

May 2020

## Projects

Röblox Freedom Distribution is a streamlined culmination of research to allow users to host and join Röblox servers in a local- or wide-area network.

- Created a Python bootstrapper, dually for clients and servers, for seamless connectivity
- Enhanced functionality through team collaboration, code reviews, and feature development
- Ensured fair-use compliance by auditing business-legal literature

2023-07 / current

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.

- Engineered separate user interfaces for customers, cashiers, and kitchen staff
- Streamlined the Covid dining experience UX with mobile-device ordering
- Developed a cashier system for efficient order tracking
- Built a front-end for bussers to ensure timely order preparation and delivery

2021-03 / 2021-04

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

- Created and scaled a modern Node.JS interface replicating GoAnimate's back-end functionalities
- Reverse-engineered Shockwave Flash files and analyzed legacy ActionScript code
- Delivered hundreds of engaging video experiences by May 2021
- Over 21,000 results on a YouTube query for Wrapper and derivative works

2019-12 / 2020-11

Röblox Script Executor was a command-line interface facilitating script execution on Röblox.

2022-07 / 2023-05

<ul style="list-style-type: none"> <li>- Constructed custom syntax for script execution in Lua</li> <li>- Introduced per-script parameterization for user ease</li> <li>- Created 142 predefined scripts in a sister repository, many with help pages</li> </ul>	
<p><u>Tubeup</u> is a project I reviewed and contributed code to re-upload videos from my YouTube channel to the Internet Archive.</p> <ul style="list-style-type: none"> <li>- Addressed apparent bugs within a payload of 234 YouTube videos</li> <li>- Implemented fixes on GitHub to account for deleted assets</li> <li>- Intuited yt-dlp's Python interface</li> </ul>	2023-08
<p><u>Screwjia-YuJa</u> addressed a severe vulnerability in YuJa's API that I identified and reported.</p> <ul style="list-style-type: none"> <li>- Bootstrapped effort to release a major security patch after ~2 days</li> <li>- Exposed saved videos and metadata, resolved after notification</li> </ul>	2022-12
<p><u>Time is Musical</u> is a musical adaptation of the WWV time station</p> <ul style="list-style-type: none"> <li>- Streamed live on YouTube using FFmpeg's lavfi filter</li> <li>- Mastered, mixed, and reproduced a composition of five tracks</li> <li>- Devised an algorithm to uniquely select playing loops per minute</li> <li>- Produced 42 synth loops using FL Studio 20</li> <li>- Constructed Python script for stream parameters</li> </ul>	2021-05 / 2022-02
<p><u>Webhooky</u> was a lightweight, database-driven webhook proxy for Rōblox games interacting with Discord's webhook API.</p> <ul style="list-style-type: none"> <li>- Made use of PHP, SQL (MySQL), and PHPMysqlAdmin to process and store request logs</li> <li>- Empowered over 200 game developers to transfer data to Discord with my service</li> <li>- Monitored and tracked infrastructure usage stats on cPanel via 000webhost</li> </ul>	2018-02 / 2019-09
<p><u>Rōblox Custom Catalogue</u> was a prospective Free marketplace licensed under GNU GPL.</p> <ul style="list-style-type: none"> <li>- Designed a sleek user interface using Rōblox Studio, without third-party libraries</li> <li>- Enabled potential users to sell hats, accessories, and packages outside the official Rōblox store</li> </ul>	2021-06 / 2022-05
<p><u>Windows81.github.io</u> is a personal website hosted on GitHub Pages.</p> <ul style="list-style-type: none"> <li>- Compiled my creative 3D-showcasing work on Rōblox</li> <li>- Incorporated elements of responsive philosophy</li> <li>- Hand-coded using HTML and CSS, sans third-party frameworks</li> </ul>	2020-05
<b>Work/Community Experience</b>	
<p><u>Front-end Developer at Gameln</u> a tool to match e-sports streamers and financial sponsors</p> <ul style="list-style-type: none"> <li>- Implemented mobile-responsive pages using Next.js (and thus React) from existing mockups</li> <li>- Collaborated directly with other developers and C-suite personnel</li> <li>- Took part in building and presenting a team-wide slide deck in Google Slides; styled with Figma</li> </ul>	2023-09 / 2024-03
<p><u>Contracted Graphic Designer @ Islamic Institute of Orange County et al.</u></p> <ul style="list-style-type: none"> <li>- Advertised social events with non-profits, e.g. Islamic Institute of Orange County and Sabil USA</li> <li>- Additionally, designed real-estate marketing materials for Berkshire Hathaway agents</li> <li>- Commissioned to design over 20 event fliers for non-profit organizations</li> </ul>	2016-04 / Present
<p><u>Internship @ CSU Fullerton</u> under the Val Tech Program</p> <ul style="list-style-type: none"> <li>- Assisted in the development of a brain-computer interface with graduate students</li> <li>- Designed user interface for mock-up calibration procedure</li> <li>- Project coordinated by Professor Kiran George, PhD</li> </ul>	2017-09 / 2018-05
<p><u>Professional Engineering Course Center</u> (on call)</p> <ul style="list-style-type: none"> <li>- Consulted in provisioning GNU/Linux file servers for office use using Ubuntu and Samba</li> </ul>	2015-06 / Present

- *Assisted in architectural and structural design plans of commercial and industrial sites*

Raising Cane's; El Pollo Loco *(customer service, part-time)*

- *Effectively communicated with customers and team members in a fast-paced environment*
- *Assumed different roles within the restaurant to support overall operations*
- *Handled cash transactions and using point-of-sale systems*
- *Addressed customer concerns and resolving issues in a positive and efficient manner*
- *Carefully selecting an adequate pricing scheme according to market value*

2019-08 / 2021-06