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	• C++	• Documentation	• Filmora 12
• HTML5/CSS3	• FFmpeg	• Android/Linux	• Affinity Photo	• Shotcut
• React	• PowerShell	• Docker Compose	• FL Studio	• Blender
• MongoDB	• GNU/Linux	• PHP	• Microsoft Office	• VS Code
• Roblox Lua(u)	• Bash	• MySQL	• OBS Studio	• OpenDocument

Education

<u>University of California, Irvine</u> – _3.671 GPA_   March 2024

- _Completed a B.S. in Software Engineering_
- _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_

<u>Santiago Canyon College</u> – _3.6 GPA_   May 2020

- _Majored in Computer Science; graduated with an A.A. in Liberal Arts_
- _Re-took courses in data structures; enrolled in S.T.E.M. Academy_
- _Earnt a 4.0 GPA for major-related courses_

Projects

<u>Bring Back Buffets</u> 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 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_

<u>GoAnimate Wrapper</u> 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.   2019-12 / 2020-11

- _Created 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_

<u>Rōblox Script Executor</u> was a command-line interface facilitating script execution on Rōblox.   2022-07 / 2023-05

- _Constructed custom syntax for script execution in Luau_
- _Introduced per-script parameterization for user ease_
- _Created 142 predefined scripts in a sister repository, many with help pages_

<u>Tubeup</u> is a project I contributed code to enable efficient re-upload of a significant portion of a YouTube channel to the Internet Archive.   2023-08

- _Addressed apparent bugs within a payload of 234 YouTube videos_
- _Implemented fixes on GitHub to account for deleted assets_
- _Intuited yt-dlp's Python interface_

<u>Screwdja-YuJa</u> was a severe vulnerability in YuJa's API that I identified and reported.	2022-12

- *Bootstrapped effort to release a major security patch after ~2 days*
- *Exposed saved videos and metadata, resolved after notification*

<u>Time is Musical</u> is a musical adaptation of the WWV time station	2021-05 / 2022-02

- *Streamed live on YouTube using FFmpeg's lavfi filter*
- *Mastered, mixed, and reproduced a composition of five tracks*
- *Devised an algorithm to uniquely select playing loops per minute*
- *Produced 42 synth loops using FL Studio 20*
- *Constructed Python script for stream parameters*

<u>Webhooky</u> was a lightweight, database-driven webhook proxy for Rōblox games interacting with Discord's webhook API.	2018-02 / 2019-09

- *Made use of PHP, SQL (MySQL), and PHPMyAdmin to process and store request logs*
- *Empowered over 200 game developers to transfer data to Discord with my service*
- *Montored and tracked infrastructure usage stats on cPanel via 000webhost*

<u>Rōblox Custom Catalogue</u> was a prospective Free marketplace licensed under GNU GPL.	2021-06 / 2022-05

- *Designed a sleek user interface using Rōblox Studio, without third-party libraries*
- *Enabled potential users to sell hats, accessories, and packages outside the official Rōblox store*

<u>Windows81.github.io</u> is a personal website hosted on GitHub Pages.	2020-05

- *Compiled my creative 3D-showcasing work on Rōblox*
- *Incorporated elements of responsive philosophy*
- *Hand-coded using HTML and CSS, sans third-party frameworks*

Work/Community Experience

<u>Rōblox Tutor @ IIOC Community Center</u> *(prospective)*	2023-06 / Present

Preparing a cirriculum for basic and intermediate Rōblox development
Establishing an audience of students aged approx. 8 through 13
Carefully selecting an adequate pricing scheme according to market value

<u>Contracted Graphic Designer @ Islamic Institute of Orange County</u> *et al*	2016-04 ⁄ Present

Advertised social events with non-profits, such as Islamic Institute of Orange County and Sabil USA
Designed real-estate marketing materials for Berkshire Hathaway agents
Commissioned to design over 20 event fliers for non-profit organizations

<u>Internship @ CSU Fullerton</u> *under the Val Tech Program*	2017-09 ⁄ 2018-05

Assisted in the development of a brain-computer interface with graduate students
Designed user interface for mock-up calibration procedure
Project coordinated by Professor Kiran George, PhD

<u>Professional Engineering Course Center</u> *(on call)*	2015-06 / Present

Consulted in provisioning GNU/Linux file servers for office use using Ubuntu and Samba
Assisted in architectural and structural design plans of commercial and industrial sites

<u>Raising Cane's; El Pollo Loco</u> *(customer service, part-time)*	2019-08 / 2021-06

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