

Ahmed "VisualPlugin" Abo-Shadi

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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.

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.

Screwija-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.

Time is Musical is a musical adaptation of the WWV time station.

2021-05 / 2022-02

- Plays a unique index-based composition of five loops every minute of the day.
- Produced 42 unique synth loops using FL Studio 20.
- Constructed Python script to generate stream parameters.
- Streamed live on YouTube using FFmpeg's lavfi filter.

Webhooky was a lightweight, database-driven webhook proxy project intended for Röblox games to interact with Discord's webhook API.

2018-02 / 2019-09

- Made use of PHP, MySQL, and PHPMyAdmin to process and store request logs.
- Over 200 game developers used the service to help transfer data to Discord.

Windows81.github.io is a personal website hosted on GitHub Pages.

2020-05

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

Tubeup is a tool I used and contributed to so I can re-upload much of my entire YouTube channel to Internet Archive.

2023-08

- Sifted through bugs on a payload of 234 YouTube videos.
- Merged fixes on GitHub to account for deleted assets.
- Intuited yt-dlp's Python interface.

Work/Community Experience

Rōblox Tutor @ IIOC Community Center - prospective

2023-06 / Present

Preparing a curriculum 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.

Contracted Graphic Designer @ Islamic Institute of Orange County 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.

Internship @ CSU Fullerton - 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.

Professional Engineering Course Center - 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.