

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

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|-----------------|--------------|------------------|--------------------|----------------|
| • 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

University of California, Irvine – 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

Santiago Canyon College – 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
- Earned a 4.0 GPA for major-related courses

Projects

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 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

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.

2019-12 / 2020-11

- 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

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

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

Tubeup is a project I reviewed and contributed code to re-upload videos from my 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

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| <p><u>Screwджа-YuJa</u> was a severe vulnerability in YuJa's API that I identified and reported.</p> <ul style="list-style-type: none"> - Bootstrapped effort to release a major security patch after ~2 days - Exposed saved videos and metadata, resolved after notification | 2022-12 |
| <p><u>Time is Musical</u> is a musical adaptation of the WWV time station</p> <ul style="list-style-type: none"> - 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 | 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"> - 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 - Monitored and tracked infrastructure usage stats on cPanel via 000webhost | 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"> - 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 | 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"> - Compiled my creative 3D-showcasing work on Rōblox - Incorporated elements of responsive philosophy - Hand-coded using HTML and CSS, sans third-party frameworks | 2020-05 |
| Work/Community Experience | |
| <p><u>Front-end Developer at Gameln</u> — a tool to match e-sports streamers and paying sponsors</p> <p>Implemented mobile-responsive pages using Next.js (and thus React) from existing mockups</p> <p>Collaborated directly with other developers and C-suite personnel</p> <p>Took part in building and presenting a team-wide slide deck in Google Slides with stylistic help from Figma</p> | 2023-09 / 2024-03 |
| <p><u>Contracted Graphic Designer @ Islamic Institute of Orange County et al.</u></p> <p>Advertised social events with non-profits, such as Islamic Institute of Orange County and Sabil USA</p> <p>Additionally, designed real-estate marketing materials for Berkshire Hathaway agents</p> <p>Commissioned to design over 20 event fliers for non-profit organizations</p> | 2016-04 / Present |
| <p><u>Internship @ CSU Fullerton</u> under the Val Tech Program</p> <p>Assisted in the development of a brain-computer interface with graduate students</p> <p>Designed user interface for mock-up calibration procedure</p> <p>Project coordinated by Professor Kiran George, PhD</p> | 2017-09 / 2018-05 |
| <p><u>Professional Engineering Course Center</u> (on call)</p> <p>Consulted in provisioning GNU/Linux file servers for office use using Ubuntu and Samba</p> <p>Assisted in architectural and structural design plans of commercial and industrial sites</p> | 2015-06 / Present |
| <p><u>Raising Cane's; El Pollo Loco</u> (customer service, part-time)</p> <p>Effectively communicated with customers and team members in a fast-paced environment</p> <p>Assumed different roles within the restaurant to support overall operations</p> <p>Handled cash transactions and using point-of-sale systems</p> <p>Addressed customer concerns and resolving issues in a positive and efficient manner</p> <p>Carefully selecting an adequate pricing scheme according to market value</p> | 2019-08 / 2021-06 |