

# 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

- |                 |                 |              |                  |                     |
|-----------------|-----------------|--------------|------------------|---------------------|
| • Network Stack | • PowerShell    | • Bash       | • MongoDB        | • C++               |
| • TCP/IP        | • Windows       | • Node.JS    | • TOTP auth.     | • MySQL             |
| • Python        | • GNU/Linux     | • HTML5/CSS3 | • Docker Compose | • Documenting Stuff |
| • FFmpeg        | • Android/Linux | • NoSQL      | • Roblox Lua(u)  | • VS Code           |

## Education

### University of California, Irvine

March 2024

- Completed a BS in Software Engineering with a GPA of 3.671
- Demonstrated strong proficiency in courses relating to the network stack
- Enrolled at the school of Informatics & Computer Science
- Participated at ACM; devised and presented solutions for LeetCode problems
- Started course track for MS in Software Engineering programme at CSUF

## Projects

### Bring Back Buffets

2021-03 / 2021-04

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

### Time is Musical

2021-05 / 2022-02

- is a musical adaptation of the WWV time station
- 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

### Tubeup

2023-08

is a project I reviewed and contributed code to re-upload my YouTube videos to the Internet Archive.

- 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

## Work/Community Experience

### 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