

Ahmed Abo-Shadi

alias *VisualPlugin* –

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Education

California State University, Fullerton - 2024 thru now

- Pursuing a MS in both Computer and Civil Engineering
- Having a solid foundation in how software works at a high level serves me for certain purposes.
- *Computer Engineering*: Learning about how to manipulate hardware helps me solve even more pressing technical issues.
- *Civil Engineering*: The field pays well. It also helps to learn these disparate industries well enough to know how to bridge them and make good for myself and society.

University of California, Irvine - 2020 thru 2024

- Completed a BS in Software Engineering with a GPA of 3.671.
- For a year in 2022, I participated at ACM club meetings,
 - Where I presented (at times) my solutions for *easy* and *medium* LeetCode problems to an audience of various skill levels.

Projects & Research

Röblox Freedom Distribution - July 2023 thru now

- <https://github.com/Windows81/Roblox-Freedom-Distribution>
- I have been developing games on Röblox from 2013, having had an account since 2008.
- At the time, the company was a small Silicon-Valley start-up.
- Over the years, its developer-friendly tools led me to take up my current-day career as a programmer.
- From 2023, I've built a full-stack application for users to *host* and *join* self-hosted, historic versions of Röblox in a local- or wide-area network.
- Created a Python bootstrapper, dually for clients|end users and servers|custom backends|custom back-ends, for seamless connectivity
- Enhanced functionality through team collaboration, code reviews, and feature development.
- Evaluated fair-use compliance by auditing business-legal literature.

Bring Back Buffets - March & April 2021

- <https://github.com/Windows81/Bring-Back-Bufferets>
- During the Covid lockdowns, I engineered a mobile web app to revive buffets whilst minimising inflection risk.
- This project's user-interaction model drew inspiration from how some Korean barbecue establishments operate:
 - Where dine-in customers can order food directly from a website they can access from their phones.
- I built separate user interfaces for customers, cashiers, and back-of-house staff, with step-by-step documentation for setup.
- Although the project is fully developed, I was unable to secure clients.

Employment

Engineering Assistant @ Professional Engineering Center - June 2015 thru now

- Provisioned and responsible for maintaining sensitive on-site file servers with Samba, enabling secure file access for the engineering team.
- Additionally, digitising drawings to AutoCAD, which are then reviewed and analysed by a licensed civil engineer.
- Supporting the construction and repair of commercial and industrial sites by clients, including multi-national manufacturers and regional utility providers.

• **Raising Cane's and El Pollo Loco** - Aug 2019 thru June 2021

- Communicated with customers and team members in a fast-paced environment.
 - Operated drive-thru and dine-in cash registers, processing orders through the POS system and supporting overall restaurant operations.
 - Helped maintain steady order throughput during peak hours.
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- **Salient Moment:** I resolved a customer's vehicle breakdown in the drive-thru lane by coordinating with staff and safely clearing the path, allowing service to resume promptly and preventing service delays.
 - One busy evening, I noticed that a car was stuck on the path.
 - Upon seeing the issue, I approached nearby drivers and asked if any had jumper cables and found one who came prepared.
 - I requested that other customers yield before a shift manager transitioned to handle drive-thru orders and took over from there.

Listed Skills

- Python
- C++
- Rust
- Node.js
- HTML5; CSS3
- PHP
- Roblox Lua(u)
- x86 Assembly

- MongoDB
- MySQL
- Next.js; React
- Docker Compose
- Git; GitHub
- GNU/Linux
- Bash
- PowerShell
- Android/Linux
- FFmpeg

- Affinity Photo
- FL Studio
- OBS Studio
- Filmora 13
- VS Code; VSCodium
- Documenting Stuff
- Microsoft Office