

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

• Rōblox Freedom Distribution - July 2023 thru now

- <https://github.com/Windows81/Roblox-Freedom-Distribution>
- I have been developing games on Rōblox 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 Rōblox 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-Buffets>
- 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; VSCode
- Documenting Stuff
- Microsoft Office