

# DAVID GODFREY

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## EDUCATION

**Astor Collegiate Academy**

2009-2013

## ACHIEVEMENTS

- Regular high-reputation contributor to the StackExchange network for over a decade, with contributions helping over 10.3 million visitors.
- Successful hobbyist freelancer for 3 years, providing comprehensive software consultation and support for a wide range of technologies and fields such as web development, data science, and security.

## PROJECTS

**Pathfinding Algorithm Visualizations** *Python*

[github.com/dgodfrey95/path-finding-visual](https://github.com/dgodfrey95/path-finding-visual)

Python generated program to illustrate classical theoretical path-finding algorithms in steps. Includes Breadth First Search, Dijkstra, and A\*

**Retro Pong** *C++14, SFML*

[github.com/dgodfrey95/Pong](https://github.com/dgodfrey95/Pong)

VS project implementing the classic arcade game Pong.

**Sudoku Solver** *Python*

[github.com/dgodfrey95/sudoku-project](https://github.com/dgodfrey95/sudoku-project)

Animates solutions to the natural generalization of Sudoku

**NBBO Tracker** *C++*

[github.com/dgodfrey95/NBBOTracker](https://github.com/dgodfrey95/NBBOTracker)

C++ program used to acquire the tightest bid-ask spread (National Best Bid and Offer) of a security from a set of venues.

## WORK HISTORY

**Freelance**

New York, NY

*Software Consultant*

August 2021 - Present

- Designed a personalized study regiment for clients and tracked their progress with a cloud-based platform, making it easier to determine gaps in knowledge, the way they learn, and identify ways to improve their understanding.
- Provided online as well as in-person tutoring and project assistance in C, C++, Python, Java, and web development, improving client grades and confidence in Computer Science theory.

**Maystreet**

Manhattan, NY

*Software Engineer Intern*

May 2019 - August 2019

- Improved latency of core infrastructure components by 20% by utilizing and integrating memory-mapped interfaces.
- Developed unit-tested mdsplit applications with C++ to take live data from an AOE and saved pcap data.
- Optimized gzip library and made it 23% faster when profiled.
- Integrated Gzip-Zip stream with SolarCapture to get data saved in Gzipped files, saving several minutes of manual processing time.

**Treetop Adventure**

Bronx, NY

*Adventure Park Staff*

November 2019 - August 2021

- Designed and optimized 4 pre-course safety orientation alternatives which lead to improved flow of guests throughout the park, facilitated the management of park-allocated time, and amounted to approximately 10% fewer burnout-related rescues while customers engaged in strenuous physical activity on the aerial courses.
- Co-produced and co-edited 3 promotional videos for the park that reached thousands across the metro-NY area, and generated more than \$10k in sales since the park's opening.

## REFERENCES

**Manuel Zambrano** Software Engineer ([manuel.zambrano@gmail.com](mailto:manuel.zambrano@gmail.com))

**Michael Lehr** Founder ([michael@maystreet.com](mailto:michael@maystreet.com))

**Nathan Addy** Supervisor ([naddy@wcs.org](mailto:naddy@wcs.org))