

DAVID GODFREY

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EDUCATION

Alfred State College
Bachelor's of Computer Science

2019-2023

ACHIEVEMENTS

- Regular high-reputation contributor to the StackExchange network for over a decade, with contributions reaching 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
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
VS project implementing the classic arcade game Pong.

Sudoku Solver *Python* github.com/dgodfrey95/sudoku-project
Animates solutions to the natural generalization of Sudoku

NBBO Tracker *C++* 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

Michael Lehr Founder (michael@maystreet.com)
Nathan Addy Supervisor (naddy@wcs.org)