

# MICHAEL Z. R. GOTTLIEB

Cell: 914-552-2674

Wayland, MA 01778

qqwref@gmail.com

## OBJECTIVE

- I have a strong interest in mathematics and computer algorithms, and I want to make an impact and solve interesting problems in tech or finance.

## EDUCATION

- **B.S. in Computer Science** from **RPI** 2013, with a minor in Economics.

## EXPERIENCE

|             |   |               |
|-------------|---|---------------|
| 2017-2022   | <b>Bloomberg</b><br><i>Senior Software Engineer in Structured Products. For 4.5 years, was the tech lead on a greenfield project to allow internal users to create and customize their own big data ETL processes and run them on our internal cluster. The tech stack included Apache Spark, Python, PostgreSQL, Amazon S3, plus a microservice and a website running React. Afterwards, for 1 year, worked on the team that handles the data pipeline for RMBS/ABS securities, developing fixes and optimizations for the pipeline in Python as well as the team's customer-facing screens in TypeScript.</i> | New York, NY  |
| 2016-2017   | <b>Addepar</b><br><i>Worked with a team of analysts to develop time-critical fixes and some larger refactors for an ETL application that processed customers' equity portfolios and transactions on a daily basis. Also worked to improve internal tooling for testing and debugging the above pipeline. Worked in Java on Mac</i>  | New York, NY  |
| 2013-2016   | <b>Boeing</b><br><i>Software development and testing on an existing application involving ETL and Big Data, and using Ruby/JRuby, Java, and Hadoop on Linux</i>   | Arlington, VA |
| Summer 2012 | <b>Fidelity Investments</b><br><i>Internship; worked with a team to develop software projects and learn q/kdb+</i>  | Boston, MA    |
| Summer 2010 | <b>American Media, Inc</b><br><i>Internship; updated spreadsheets and entered data</i>  | New York, NY  |

## SOFTWARE SKILLS

- Application and web programming in Python, JavaScript/TypeScript, and Java, on Windows or Linux, with knowledge of C/C++, Ruby, bash, SQL, AWS, q/kdb+, Microsoft Visual Basic, Excel, etc.
- Strong debugging skills
- Design and typesetting in HTML, CSS, LaTeX

## PERSONAL PROJECTS AND INTERESTS

- Ranked first overall on the Puzzle Team logic puzzle site (puzzles-mobile.com)
- Averages 11 seconds on the Rubik's Cube and has solved hundreds of related puzzles. Organized and ran an official World Cube Association competition. Developed an online timer/scrambler whose code is used in csTimer, currently the most popular cubing timer. Also developed several cube simulators and solvers.
- Top ranked Minesweeper player in the US from 2012-22
- Maintained a personal website (mrzg.com) since 2003

## AWARDS

Top 25, **Putnam Mathematical Competition**  
**USA Mathematical Olympiad**  
**Mathematical Olympiad Summer Program**  
6<sup>th</sup> place/Bronze Award, **Asia Pacific**  
**Mathematics Olympiad**  
**International Linguistics Olympiad**  
**Cum Laude Society**

**Rensselaer Medal**  
**RPI's Presidential Scholars program**  
First place in NY state in **American**  
**Mathematics Contest 12**  
Gold Medal, **USA Mathematical Talent**  
**Search**  
**Security+ certification, 2014**

## PERSONAL

- US Citizen