

# AVI VAZANA



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## EXPERIENCE

**CatalystCreativ**, *Software Developer Contract* January 2019 – Present

- Utilized Agile Development and object-oriented principles to develop a mobile and web product software solution, working closely with project managers to design and create a clean and intuitive interface
- Collaborated on a project with load-balanced and auto-scaling server architecture, integrating AWS EC2, for use by over 70,000 students

**App Academy**, *Software Engineering Instructor*, N.Y. January 2019 – Present

- Supported over 50 unique Capstone Projects with implementation decisions, debugging, and code review
- Developed and taught curriculum for algorithms and data structures

**Tutor Tactics**, *Founder and Lead Tutor*, N.Y. January 2016 – September 2018

- Created business that provided customized lessons for over 100 students
- Conducted marketing campaign that increased annual revenue by 20%
- Increased standardized (SAT/ACT) test scores by an average of 17%

## PROJECTS

**Spoofify** (Ruby, Rails, React, Redux, JavaScript, CSS, PostgreSQL) [Live](#) | [Repo](#)  
*A full-stack, single-page application for enjoying and discovering music.*

- Employed DRY coding techniques and modular architecture to increase readability
- Optimized queries, only accessing the database when necessary, to reduce runtime loading
- Integrated AWS for data retrieval to increase performance and scaling potential

**Circle Guy** (JavaScript, CSS, HTML) [Live](#) | [Repo](#)  
*A fully-playable, Pac-Man-inspired game*

- Built from scratch, using only vanilla JavaScript to manipulate DOM elements
- Integrated ghost AI to track down and cut off 'Circle Guy'
- Utilized tile-grid to re-render only modified elements, increasing performance

**Chess** (Ruby) [Repo](#)  
*A chess game you can play in your console*

- Built using Object Oriented Programming design principles, including multiple levels of inheritance for chess pieces □

## SKILLS

**Frontend:** JavaScript (jQuery, AJAX, Flux, React, Redux), HTML5, CSS

**Backend:** Ruby (Rails, Rspec), Python, Elasticsearch, SQL, C++, Java

**Tools:** Git, AWS

## EDUCATION

**App Academy**, N.Y. September 2018 – December 2018

- Rigorous 1000-hour full-stack software development course with < 3% acceptance rate.
- Emphasizes coding style, pair-programming, and best practices.

**The Macaulay Honors College**, Queens, N.Y. September 2011 – June 2015  
*Graduated Cum Laude*

- Bachelor of Arts: Applied Mathematics (Honors)
- GPA: 3.5
- *Relevant Coursework:* Java, C++, Linear Algebra, Probability & Statistics, Number Theory, Abstract Algebra, Vector Calculus, Discrete Math