

Joseph Katz

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SKILLS

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|------------|--------|----------|----------|-------|
| Python | Ruby | SQL | Java | Swift |
| JavaScript | jQuery | React.js | HTML/CSS | Rails |

EXPERIENCE

Software Engineer Consultant - Doran Jones, New York Jan 17 - Present

- Utilized the distributed platform to subscribe to and display the performance of the runs in a graph.
- Wrote SQL queries to aid in validation and to provide business users a snapshot of the results.
- Automated the generation of Excel files using Python to show failures in the pricing models.
- Improved security by ensuring that the underlying data structures were immutable.
- Helped scale the platform from a capacity of 1 million to 3 million running nodes.

iOS Instructor - iD Tech, Stanford June 16 – Aug 16

- Held lectures to introduce essential programming concepts in the Swift programming language.
- Assisted students in the creation of iOS games, two of which included a Star Wars themed shooter game and a Pokémon: Go clone.
- Earned a 4.6 out of 5 in student satisfaction during my last cohort.

Computer Science Tutor and Grader - NYU Sept 15 – May 16

- Created Bash scripts that would test the 30 students' files against test cases and output their answer along with their code to check for both correctness and quality.
 - Used Java to teach the fundamental data structures to over 75 college students.
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PROJECTS

Full-Stack Developer, Medium-Cup-Of-Joe (Rails, React.js, Megadraft.js) | [live](#) | [github](#)

- Incorporated third party APIs to allow users to enter rich text stories and convert the state of the editor to sanitized HTML code.
- Managed the state of my website by implementing the Redux framework.

Ruby Developer, Chess (Ruby) | [github](#)

- Utilized DFS to display the legal moves available for a chess piece to enhance user satisfaction.
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EDUCATION

App Academy – New York Aug 16 – Nov 16

- Intensive web development training program emphasizing pair programming.
- Teaches full-stack web development: Ruby, SQL, JavaScript, React, and design patterns.

New York University - B.A. Mathematics (Cum Laude, 3.7 GPA) Sept. 13 – May 16

- Minor in Computer Science
- Curriculum Highlights - Algorithms, Computer System Organization, Data Structures, Financial Mathematics, Computer Simulation, and Discrete Math