

# Eric Miller

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## Skills

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**Object-oriented Programming [3 years]:** Java, Ruby.  
**Web Development [1-2 years]:** Javascript, Ruby on Rails, HTML/CSS.  
**Other Languages [1-2 years]:** SQL, Matlab, C.  
**Mathematical Ability:** Computational Analysis, Statistics, Strong problem-solving skills.

## Education

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### Boise State University

BS IN APPLIED MATHEMATICS – MINOR IN COMPUTER SCIENCE

GPA: 3.7

Boise, ID

Jan 2013 – Dec 2016

## Projects / Coursework

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### Senior Thesis – Incomplete LU Factorization

Matlab

COMPLETED SEMESTER-LONG RESEARCH PROJECT ON CONDITIONING LARGE, SPARSE MATRICES VIA INCOMPLETE LU FACTORIZATION—A NUMERICAL METHOD USED TO INCREASE EFFICIENCY IN APPROXIMATING LARGE SYSTEMS OF EQUATIONS.

### Research Project – Traveling Salesman Problem

Matlab

RESEARCHED AND IMPLEMENTED A 'SIMULATED ANNEALING' SOLVER FOR THE 'TRAVELING SALESMAN PROBLEM'—A COMBINATORIAL OPTIMIZATION PROBLEM IN WHICH THE SHORTEST ROUTE THROUGH EVERY NODE OF A LARGE, UNDIRECTED WEIGHTED GRAPH IS APPROXIMATED.

### Computer Science Coursework

OO PROGRAMMING, DATA STRUCTURES, DESIGN/ANALYSIS OF ALGORITHMS, WEB DEVELOPMENT, THEORY OF COMPUTATION, INFORMATION RETRIEVAL, SYSTEMS PROGRAMMING.

## Work Experience

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### Private Math Tutor

Treasure Valley, ID

TUTOR

Sept 2018 – Present

- Improve students' comprehension of concepts ranging from arithmetic to calculus and differential equations.
- Prepare weekly, individual-specific quizzes and lesson plans that identify and correct errors in mathematical thinking.
- Collaborate with parents on ways to cater to a variety of learning styles and behavioral needs.
- Raised student math scores by as much as 3 letter grades.

### CaptionCall

Meridian, ID

COMMUNICATIONS AGENT

Feb 2013 – Present

- Render verbatim transcriptions of telephone conversations in real time for individuals who are hard of hearing.
- Submit software bug reports.
- Provide management with constructive feedback regarding ways to improve captioning quality.
- Maintained one of the top 10 highest average call accuracy scores company-wide (more than 3,000 Agents) over the period of a quarter.

### Gandolfo's Delicatessen

Meridian, ID

SHIFT LEADER

Apr 2010 – Apr 2012

- Managed and trained employees.
- Completed daily cash audit and balanced tills.
- Provided efficient and friendly customer service in a fast-paced environment.

## Achievements

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- 2016 **Graduated cum laude.**
- 2014 **Made Dean's List with Highest Honors for 4 semesters.**
- 2011 **Earned the Eagle Scout Award.**