

ANDREW W ZHAO

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EDUCATION

Berkeley, CA Bachelor, Computer Science Technical GPA: 3.5 Cumulative GPA: 3.3	University of California, Berkeley	Aug 2013 – May 2017
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EXPERIENCE

Integra Telecom, Vancouver WA	Business Intelligence Intern	Jun 2015 – Aug 2015
<ul style="list-style-type: none">• Learned how to utilize Microsoft SQL Server and Tableau to work with relational databases.• Used Microsoft SQL Server to develop queries that aggregated data into data sources for business users.• Automated data reports to solve long standing ease-of-use issues.• Significantly reduced weekly load on production servers by optimizing problematic queries, most notably reducing a 3+ hour query down to a few minutes.		
Saltire Software, Tigard OR	ASE Intern	Jun 2012 - Aug 2012
<ul style="list-style-type: none">• Utilized Geometry Expressions and iBooks Author to create an eBook version of Euclid's Elements.• Used Geometry Expressions to create interactive diagrams to illustrate the eBook.• Explored the limits of Geometry Expressions to generate ideas for new features.• The eBook can be found at http://goo.gl/IbiWlu.		
Lincoln High School, Portland OR	Peer Tutor/TA in Math	Jan 2011 - Jun 2013
<ul style="list-style-type: none">• Figured out simpler ways of explaining math concepts to those who needed help.		

PROJECTS

- **XML Extraction:**
 - Designed and implemented a table-driven **SQL Server** framework for analyzing XML files.
 - Hosted code reviews to get advice from team members for general and scalable design decisions.
- **Kids First Project:**
 - Used **HTML/CSS** with the **Bootstrap** framework to create a website for a nonprofit organization.
 - Can be found at <http://kidsfirstproject.org>.
- **Tic-tac-toe:**
 - Designed a two player Tic-tac-toe game using **HTML/CSS** and the **Ruby on Rails** framework.
 - Implemented game functionality and logic using **Javascript**.
 - Can be found at <http://calm-atoll-9489.herokuapp.com/>
- **Sliding puzzles:**
 - Utilized the **Apache Spark** framework to apply MapReduce to finding all states of the Fifteen puzzle.
 - Ran the implementation on the Amazon EC2 servers to solve puzzles of larger dimensions.
- **Message compression:**
 - Used **Python** to create a program that compresses and decompresses messages.
 - By assigning more popular characters to shorter bit strings, achieved an average of 35% compression.

SKILLS

- Proficient with Python, C, SQL Server, HTML, CSS, Tableau.
- Familiar with Ruby on Rails, JavaScript/JQuery, Bootstrap, Java, LaTeX, SSIS.
- Able to utilize OpenMP, Intel SSE Intrinsics, and MapReduce through Apache Spark/Hadoop.

KEY COURSEWORK

Completed:

• CS 170: Efficient Algorithms and Intractable Problems	Spring 2015
• CS 188: Introduction to Artificial Intelligence	Spring 2015

Currently taking:

• CS 186: Introduction to Database Systems	Fall 2015
• CS 162: Operating Systems and System Programming	Fall 2015
• CS 168: Introduction to the Internet: Architecture and Protocols	Fall 2015