

# Zachary Lorenzen

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[zachlorenzen.com](http://zachlorenzen.com)

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## Technical Skills

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Languages: Java, C#, C, C++, Scheme, Prolog, Python, LaTeX, SQL, BASH, Groovy

Software: Microsoft Office, Eclipse, Unity, Blender, SPSS, VIM, Visual Studio, SVN

OS: Windows, Ubuntu Linux

## Relevant Projects

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Rapid Prototype - Troncano (Unreal Engine 4, Blueprints Visual Scripting) December 2014

*A 3D platformer where the player is able to push and pull themselves off of pieces of the environment to move around.*

Rapid Prototype - No Gamer Left Behind (Unity 2D & C#) November 2014

*Prompted by PC Gamer's report that women now make up over 50% of pc gamers across all genres, No Gamer Left Behind is a platformer with the purpose of spreading this news.*

Computer Science Capstone Project (Undergraduate) – Dias (Unity 3D & C#) May 2014

*Dias is a fully 3D, team-based, competitive multiplayer, arena platformer.  
Development blog: [diasdev.blogspot.com](http://diasdev.blogspot.com)*

Software Engineering - HAM (Python, Django, MySQL) May 2014

*Home Automated Management provided remote home management to clients, which allowed them to turn lights on and off, and other basic functions.  
Development blog: [hambvu.blogspot.com](http://hambvu.blogspot.com)*

Summer Research - Data Compression Research (Java) Summer 2013

*I developed and tested a new lossless data compression algorithm with Dr. Stone, a professor of physics and computer science at BVU. We tested the new method against static and adaptive Huffman algorithms, the Shannon-Fano algorithm, and others.*

Regression Analysis – Competitive Gaming and Speed (SPSS) May 2012

*I collected data from over two thousand Starcraft players on how fast they play, their age, and other factors that relate to their gameplay.*

## Work History

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Academic Assistant at Buena Vista University

September 2011 : May 2014

- Tutored algebra, calculus, and other math courses.
- Proctored classes and assisted professor.

Farm Hand at Lorenzen Farms

2006 : September 2010, May 2016 : October 2018

- Cattle, Swine, and Crops.

## Education

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**M.S. Buena Vista University** Corporate Mathematics & Computer Science/Mathematics May 2014

**M.E.A.E. University of Utah** Entertainment Arts and Engineering Master (Incomplete) May 2015