

# D. Zack Garza

## Curriculum vitae

### WORK EXPERIENCE

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JANUARY 2016 – PRESENT

Retail Scientifics, San Diego CA

#### *Full-Stack Engineer*

Design and deployment of cloud-based applications to power mathematical modeling and prediction APIs, creation of visualizations for spatial and numerical data, as well as user interfaces for exploratory data analysis.

JUNE 2016 – SEP 2016

Google Summer of Code

#### *Student Developer*

Participated in program to spend a Summer working as a contributor to open source software. Made improvements related to usability and discoverability of packages on the Haskell software that powers the Hackage website.

JUNE 2014 – JUNE 2015

Shutterfly, Santa Clara CA

#### *Intern/Contractor, Software Engineer*

Built a server-side OpenGL graphics engine, meant to provide customization and rendering of 3D product models as a web service, including hand-written shaders and buffered mathematics/kinematics/geometry libraries. Contributed to product personalization software stacks in Java, PHP, and Javascript.

DECEMBER 2007 – MAY 2011

United Pizza dba., Sacramento CA

#### *General Manager*

Responsible for all facets of daily operation: inventory, operations, scheduling, P&L, and marketing. Led a team of over 10 employees to improve weekly sales by over 50% in less than a year. Worked closely with the community to assist with local events and fundraisers, and implemented a training system adopted by 13 stores.

### SOFTWARE SKILLS

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LANGUAGES: Javascript, Bash, Python, R, C, C++, Haskell, Java, Matlab, HTML5/CSS3/ES2017, x86 Assembly, Ruby, PHP,  $\LaTeX$

TOOLS: Unix/Linux, Git, vim, Node/NPM, Maven, Gradle, jQuery, D3.js, Vue.js, Webpack, Express, NumPy, MongoDB, PostgreSQL, MySQL, Redis, Nginx, Jupyter

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Github: [github.com/dzackgarza](https://github.com/dzackgarza)

### EDUCATION

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- 2015 – 2018 **UC San Diego – CA**  
BACHELOR'S DEGREE (IP)  
*Pursuing Bachelor's in Mathematics*
- 2014 – 2015 **DVC & UC Berkeley – CA**  
CONCURRENT ENROLLMENT  
*Courses in Computer Science, Mathematics, and Signal Processing*
- 2011 – 2014 **Sierra College – CA**  
ASSOCIATE'S DEGREES  
*A.S., Physics, A.A. Mathematics, A.A. Arts and Culture*

### PUBLIC PROJECTS

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- 2014 **dzackgarza.com**  
*Personal website, built using Twitter Bootstrap and Jekyll for static page generation.*
- 2014 **Emma-Saying**  
*Android application utilizing the Youtube API to search for word pronunciations.*
- 2013 **Hash-Table**  
*Implementation in C++, using Linked Lists and custom Strings without null terminators.*
- 2012 **tcc**  
*Tiny Chat Client - a small C program that uses sockets to connect to a centralized chat server.*
- 2012 **MSMoA**  
*Mini Shell Made of Awesome - a BASH terminal emulator with basic functionality for commands and scripts.*
- 2011 **wavtools**  
*Java library that performs several operations on .wav sound files.*