

Zach Gulde

Summary

I like solving both technical and business problems with code and data, sharing knowledge with others, automating the automatable, and a good cup of hot coffee.

**Note: this resume has been prepared with minimal formatting. Visit <https://zgulde.net/> for a prettier version.*

Contact

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📍 San Antonio, TX

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Skills

Data Web Scraping | Data Wrangling and Preprocessing | Data Visualization and Storytelling | Applied Statistics | Machine Learning | Interactive Dashboards

Programming Languages Python | R | JavaScript | Java | HTML | CSS | Clojure | Bash | PHP

Development Web Applications | Command Line Tools | Infrastructure Automation | Cloud Deployments | React | Docker | Git | JSON APIs | Object Oriented Programming

Education

Western Governors University Jan 2017 to June 2021 BS Software Development

Codeup Sep 2015 to Feb 2016 Certificate of Completion in Web Development

Texas A&M Sep 2008 to May 2012 BS Anthropology (Incomplete)

Certifications

Java SE 8 OCA Oracle Mar 2017

A+ CompTIA May 2018

Project+ CompTIA Jun 2020

ITIL 4 Foundation PeopleCert Oct 2020

Experience

Codeup | Curriculum Developer, Data Science Instructor, Web Development | Instructor Feb 2016 to Present (6 years)

I split my time between teaching, improving Codeup's curriculum, and working with internal data and tools.

- Designed and implemented Codeup's introduction of a Data Science Course
- Guide students on best practices in data visualization and communicating recommendations and findings
- Instruct students on applying Machine Learning techniques to data problems
- Manage 4-6 project teams of 3-4 students each during their 3-week real-world capstone projects
- Analyze internal student and class data to improve and update curriculum
- Designed, implemented, and maintain a custom LMS, including curriculum versioning and deployment

Whiskr | Software Developer | *May 2016 to May 2017 (1 year)*

- Built out RESTful endpoints for social media influencer tracking into an existing PHP + Laravel application
- Built an automated webscraper with selenium and python to acquire cruise price data

Projects

Codeup Curriculum

I co-authored Codeup's custom curriculums for both the web development and data science programs. The course takes students from little to no background to enough knowledge to be a practitioner.

Student Retention Rate Analysis

I analyzed Codeup student data to find what pre-enrollment factors drive student retention. Work was done in python with pandas and matplotlib. A report leveraging data visualizations and statistics to make recommendations was written and presented to the Codeup Director of Admissions.

Student Capstone Activity Dashboard

I built and deployed a custom dashboard with python, plotly, and dash to keep track of data science student teams' progress throughout their capstone projects leveraging git commits as the primary data source.

GitHub Activity Tracker

I made a tool that keeps tabs on Codeup students' GitHub activity. Python code reads time series event data from the GitHub API, wrangles and cleans the data, and aggregates on a weekly basis by student and class. The data is shared via a Google sheet with various stakeholders.

Stats Demos

I maintain a website of various interactive explanations and animations to help illustrate statistical and machine learning concepts. Most work is done with custom python and matplotlib animation code, leveraging Flask for some interactivity.

<https://stats-demos.zach.wiki>

Cods

I wrote a tool that automates the cloud deployment of Java, Python, PHP, or Node web applications and static web sites to one or more virtual private servers.

github.com/zgulde/cods

Codeup Tools Application

I designed and maintain an internal custom tool for Codeup instructors and administrators. PHP, HTML, CSS, and Javascript code integrates curriculum access management, custom quizzes, student grade management, and student notes.

Portfolio

Check out [my open source portfolio \(https://zgulde.net/portfolio/\)](https://zgulde.net/portfolio/) for more selected works, or browse through any of the repositories on my GitHub.