

# Diego Valdes

Computer Scientist

## Personal Info

Address  
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## Programming Languages (Proficient)

SQL

Java

PHP

Python

Perl

## Programming Languages (Familiar)

C++

Haskell

Prolog

HTML

CSS

## Business Skills

Communication (Written, Verbal)

Team work

Leadership

Creativity

Problem solving

Inquisitive, energetic computer science specialist interested in data management and software development, with a strong foundation in leadership, teamwork, and problem solving.

## Experience

### University of South Carolina, Computational Biology Lab

- Undergraduate Researcher Aug. 2014 - Pres
- ✓ Collaborated with project advisor to design and develop a relational database management system for all proteins in an attempt to provide a modern approach to analyzing similarities, patterns, and formulating original ideas on the use of proteins.
  - ✓ Responsible for writing and maintaining complex SQL queries for data analysis and extraction for various projects.
  - ✓ Downloaded data from Protein Data Bank site and developed scripts (Python, Perl) to handle data insertion and extraction, record and handle errors, and log overall progress.
  - ✓ Collaborated with teammates to conceptualize and develop an Android application to assist nurses and first responders during mass casualty events. Prototype was developed under strict guidelines, requirements, and deadlines.
  - ✓ Integrated MATLAB executable with relational database management system to assess patient signs and symptoms against possible chemical agents.
  - ✓ Led team in redesigning communication and database components to improve system effectiveness and meet long-term project goals for real-world implementation.

## Education

### University of South Carolina, Columbia, SC.

- B.S. Computer Science Expected 2018-05
- ✓ GPA 3.465
  - ✓ Favorite class: Database System Design

## Projects

### Cindy's List

- ✓ Designed an Android application for managing and maintaining shopping lists.
- ✓ Application implements MySQLite database for local data storage.
- ✓ Altered user interface designs based on user interactions and feedback .
- ✓ Future plans include server implementation:
  - Integrating location data to populate pricing, pictures, and sorting
  - recipe storage and list sharing

### AdviseMe

- ✓ Collaborated to design and implement a system to simplify advisement needs.
- ✓ Implements database and web resources to traverse a university's master. schedule and provide users with an accurate portrayal of student degree requirements.
- ✓ Future plans include:
  - ✓ Adding multiple colleges to expand to user base and test system viability.
  - ✓ Modify system to be integrated with any college/university.