Diego Valdes

Computer Scientist

Personal Info

Address
1619 Enoree Ave.
Columbia, SC. 29205

Phone
561-310-2662

E-mail
diego.valdes.jr@gmail.com

Web
diegovaldesjr.com

Programming Languages (Proficient)

SQL

Java

PHP

Python

Perl

Programming Languages (Familiar)

C++

Haskell

Prolog

HTML

CSS

Tools

MySQL

MongoDB

Android Studio

Git

Eclipse

Command Line

R

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.