

MIGUEL DEL VALLE

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👤 Mdelvalle

Skills

LANGUAGES

Javascript
HTML
CSS
Node.js
Python
Java
Elixir

PLATFORMS

OSX
Linux
Windows
Web

OTHER TECHNOLOGIES

Git & Github
OpenCV
Vim
Heroku
Docker

PRACTICES

Object-Oriented Programming
Functional Programming
TDD
Agile
Pair Programming

RELEVANT COURSEWORK

Data Structures
Logic Sets and Functions
Intro to Architecture
Operating Systems
Computer Graphics
Object-Oriented Programming
Intro to Computer Security
Algorithms and Complexity
Database Management
Programming Languages
Ruby Programming
Computer Vision
Open Source Software Engineering

AWARDS

CompTIA A+ Certification

OPEN SOURCE

Contributed to Selendroid - Selenium for Android

Education

University of Texas at Austin
Computer Science 2015

Employment

REALM

Software Development Intern

Remote

Jun 2015 to Sep 2015

Worked on Nirvana, an open source, fully distributed and modular internet/web social platform for gamers build with Elixir.

Projects

Purporize

Designed and implemented a web application that lets users upload their favorite songs and chop and screw them with the help of the Echo Nest Remix API. This application will lower the tempo, reduce the pitch, and replay certain key segments of the song.

(Python, Node.js, Express.js, HTML, CSS) - purporize.herokuapp.com

Secloop

Designed and implemented a web application that allows users to loop through any section of a Soundcloud song - just supply the song URL and listen forever.

(Javascript, jQuery, HTML, CSS) - mdelvalle.github.io/secloop

Javascript Interpreter

Created an interpreter for a subset of Javascript that allowed for error checking, multiple bindings in a variable binding expression, anonymous functions, environments, and mutable state using monads.

(Haskell, Javascript) - <https://github.com/Mdelvalle/CS345-Programming-Languages>

Panorama Stitching

My partner and I designed a program that stitches multiple images of a scene together into a panorama automatically. A panorama is a composite image that has a wider field of view than a single image, and can combine images taken at different times for interesting effects.

(Python, OpenCV, NumPY) - <https://github.com/Mdelvalle/CS378-Computer-Vision>

Advanced Encryption Standard (AES)

Implemented the AES block cypher encryption algorithm from scratch, using a 128-bit key length.

(Java) - <https://github.com/Mdelvalle/cs361-projs/tree/master/proj4>