

Edson Almachar

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Website/portfolio: ealmachar.github.io

WORK EXPERIENCE

- RDM Infinity - Contracted Web Developer Oct 2015 - Sept 2017
- Crafted faster and more readable mobile inventory management systems with jQuery mobile for companies with warehouse distribution sectors reducing device cost by 90%.
 - Emulated frontend design and backend functionality for handheld barcode scanning equipment.
 - Programmed Interface protocols with legacy PICK database systems through an intermediary PHP server maintaining workflow familiarity.
- UNR's Brain Computation Lab - Software Developer May 2014 - Dec 2014
- Constructed Reporting and Graphing interface through SVG manipulation using D3js and data processing through Angularjs.
 - Constructed backend data streaming service using Flask and WebSockets.
 - Managed project merging of NCR and NCB using Gruntjs.

COMPUTER DEVELOPMENT

Languages: Javascript (Advanced), C++/C (Intermediate), Python (Basic), PHP (Basic)
Web Technologies: HTML, CSS, jQuery, Ajax, AngularJS, SVG and D3js, Canvas, Sass, ThreeJS

EDUCATION

University of Nevada, Reno
Bachelor of Science, Computer Science 2014
Minor in Mathematics

EXAMPLE FRONTEND PROJECTS - (viewable on ealmachar.github.io)

Man-made Satellite Visualization - Used D3js and Canvas to construct a real time speed and distance visualization of man made satellites orbiting earth, including play controls and distance modifiers.

Iris Flower Dataset Visualization - Used D3js to construct a radial specimen picker to visualize Ronald Fisher's Iris Dataset where users can view top and side visualizations and scatter plots.

Bay Area Bike Station Visualization - Used D3js to construct a multigraph dashboard (including Google maps) to visualize bike station activity in the Bay area.

N-Body Solar System 3D Visualization - Used THREEjs and Angularjs to construct an n-body simulation of the solar system in WebGL, including 3D models, effects, menus and sounds.