UTAKO UFDA

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LANGUAGES & FRAMEWORKS

- Ruby Rubý on Rails
- Javascript
- · CSS
- Backbone.js
- SQL, PostGresQL
- Node.js
- HTML5, CSS5
- Software: Adobe CS6, Solidworks, Origin, Labview, Mathematica
- Other: Robot and circuit design, programming and fabrication

EXPERIENCE

Research Associate

DEPARTMENT OF RADIATION ONCOLOGY UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

 Managed research projects to optimize performance of deformable image registration algorithms for future safe and reliable use in radiation oncology treatment planning

Research Assistant CENTER FOR ENERGY RESEARCH UNIVERSITY OF CALIFORNIA, SAN DIEGO

- Ran experiments for measurement of plasma jets and x-ray output produced by wire ablation
- · Designed and fabricated experimental machines and tools

JULY 2009 TO SEPTEMBER 2013 SAN FRANCISCO, CA

- Developed methodology to test algorithms using Matlab and Ruby
- Collaborated closely with a team of medical physicists, physicians and medical software engineering teams

MARCH 2005 TO SEPTEMBER 2008 SAN DIEGO, CA

- Data acquisition and analysis for publica-
- Modeled complex plasma interaction using C++ and Fortran

PROJECTS

AirDnD

· A web-app for connecting Dungeons and Dragons players with Dungeon Masters and vice versa. Originally just a pun based on Airbnb, now a web-app using Ruby on Rails, Javascript, Backbone.js, jQuery, HTML5 and CSS3.

Asteroids

• My take on the arcade game using Javascript, jQuery and HTML5 Canvas. The bullet-asteroid interactions are elastic collisions that are dependent on the the ratios of the bullet- and asteroid- radii, assuming that their densities are the same (an approximation of Newton's Law of Gravitation).

· Your standard Trello clone, implementing Backbone is, Ruby on Rails, Javascript, jQuery, HTML5 and CSS3.

MISC. SKILLS & INTERESTS

- Three years machine shop experience (teaching and machining)
- Native written and spoken English and Japanese
- Excellent communication & organizational
- · Interests: Backpacking, playing music, cycling & beer

EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO REVELLE COLLEGE

FALL 2003 TO FALL 2007

- Degrees: BS in Physics, Minor in Political Science Relevant Courses: Galaxy Modeling (C), Robot Design (C++, Assembly), Graduate Statistical Mechanics
- Design Editor for the MQ Designer for the UCSD Guardian

PUBLISHED RESEARCH

- Co-authored papers in numerous publications, including the Medical Physics Journal and IEEE Transactions on Plasma Sciences.
- Speaker: American Association of Medical Physics Annual Meeting 2012 2010