Solar Olugebefola

Web Developer

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portfolio | github | linkedIn

Projects

PennyRoyal (Ruby on Rails, React.js) Live | GitHub

A financial transaction tracking site inspired by Mint.com

- User log in/sign up using BCrypt for password authentication.
- Reduces local user profile storage by leveraging Amazon Web Services.
- React Flux design pattern simplifies data flow and reduces db conflicts.
- Limits calls to server using React front-end routing.

Solaroids (JavaScript, HTML Canvas) Live | Github

An exciting spaceship survival game based on the classic Asteroids

- Object classes use prototypal inheritance to share properties and methods.
- Dynamic size/color behaviors for solaroids and ship beam weapon.
- Vector-based momentum transfer between ship beam and asteroids.

Ruby ❤ Db Github

An ORM for Ruby with similarities to Rails' ActiveRecord.

- Create class instances directly from database records.
- Search methods translate to SQL queries.
- Metaprogramming with associations like *has_many, belongs_to*.

Skills

Ruby on Rails	Javascript	Rspec(TDD)	PostgreSQL	AWS
React.js	jQuery	Git	CSS	HTML5

Education

App Academy
September 2015 - December 2015

Immersive web development program with a < 5% acceptance rate. 80+ hours per week of direct-coding, pair programming experience.

Massachusetts Institute of Technology | Ph.D.
September 1999 - June 2007

Ph.D in Materials Science and Engineering. Focus on optical properties of novel thin film polymers.

Experience

Beckman Institute for Advanced Science and Technology
Laboratory Manager and Postdoctoral Associate
January 2008 - December 2010

- Led research projects into self-healing synthetic materials resulting in 3 major publications.
- Oversaw instrument operation and upkeep for interdisciplinary lab with 8 principal investigators.
- Liaison to the Air Force Office of Scientific Research for 3 grant milestone reports and multi-day site visits.