Solar Olugebefola

Web Developer

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Projects

PennyRoyal (Ruby on Rails, React.js)

A financial transaction tracking site inspired by Mint.com

- User log in/sign up using BCrypt for password authentication.
- Stores user profiles with Amazon Web Services API.
- React Flux design pattern for data flow.
- Limited calls to server using React front-end routing.

Solaroids (JavaScript, HTML Canvas)

An exciting spaceship survival game based on the classic Asteroids

- Collision detection for solaroids, bullets, and ship.
- Object classes use prototypal inheritance to share properties and methods.

Ruby ❤ Db

An ORM for Ruby with similarities to Rails' ActiveRecord.

- Create class instances 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 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

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