

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 conflicts.
- Limits calls to server using React front-end routing.
- D3.js chart dynamically displays category popularity.

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.
- Awesome pseudo-retro sprite graphics.

Ruby ❤️ **Db** [Github](#)

An ORM for Ruby with similarities to Rails' ActiveRecord.

- Create class instances directly from database records.
- Metaprogramming with associations like *has_many*, *belongs_to*.

Skills

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

Education

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.

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.

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.
- Liaison to the Air Force Office of Scientific Research for 3 grant milestone reports and multi-day site visits.
- Oversaw instrument operation, scheduling, maintenance for interdisciplinary lab with 8 principal investigators.