

Vishak Visvanathan

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[portfolio](#)



[github](#)



[linkedin](#)

PROJECTS

Sitbit Dashboard (*Rails, Backbone.js, Vega.js*) | [live](#) | [github](#)

Health tracking & data visualization app inspired by Fitbit Dashboard.

- Utilizes modified Backbone composite view pattern to chart health data in a responsive single-page app.
- Pioneered integration of Backbone view patterns with Vega.js graphing library.
- Maximized chart render speed through reconciliation of server-side and client-side data handling.

Rails Lite + ActiveRecord Lite (*Ruby*) | [github](#)

Lightweight version of Ruby-on-Rails with custom ActiveRecord ORM implementation.

- Replicates Rails controller and router object classes, including controller methods.
- Stores and persists serialized session data in WEBrick cookie.
- Fully featured ORM associations and table modification methods.

TRON (*Javascript, HTML5, CSS3*) | [live](#) | [github](#)

Javascript game based on the 1980's cult classic TRON.

- AI calculates optimal re-route upon collision through 'sweep area' method.
- Features modern, themed user interface; single-player and multiplayer modes.

SKILLS

Ruby
Rails

Javascript
jQuery

Backbone
SQL

HTML
CSS

TDD
git

EXPERIENCE

Jr. Mechanical Engineer (2013 - 2014)

Science Applications International Corporation (SAIC)

- Standardized protocol for assembly tracking to increase design team productivity.
- Initiated and executed comprehensive mechanical analysis and documentation of mission-critical network racks (Space and Naval Warfare Systems).

Assistant Scientist (2013 - 2014)

Enviroapplications

- Supported engineering operations with regulatory research, drafting, and emissions analysis.
- Designed 50+ solar PV systems for commercial and residential installations.

EDUCATION

App Academy (2015)

Immersive software and web development course • acceptance rate < 3%

University of California, San Diego (2013)

BS Environmental Engineering

Relevant Coursework: Engineering Statistics, Differential Equations, Numerical Analysis