
KAI HE

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[GitHub](#) - [LinkedIn](#)

San Francisco, CA

Experience

Software Consultant, Quorum Business Solutions — July 2013 - May 2015

- ▶ Successfully enhanced the scheduling module to calculate best uses of a Fortune 500 client's physical assets. (C# / SQL Server)
- ▶ Reduced batch process run-time by 30% via caching.
- ▶ Oversaw client transition to new module along with one other team member.

Electrical Eng. Intern, Boeing: Defense, Space, & Security — Summer 2012

- ▶ Designed and developed an internal software tool to control motion stages as part of a moving infrared air-target projector.
- ▶ Completed draft of testing procedures for a RS-422 communications interface.

Research Intern, University of Texas at Austin — Summer 2011

- ▶ Performed research at the Microelectronics Research Center in the lab of Dr. Sanjay Banerjee. National Science Foundation REU ~10% acceptance rate.
- ▶ Investigated ferromagnetic nanoparticles for magnetic random access memory applications.

Skills

Ruby, JavaScript, Ruby on Rails, Backbone.js, jQuery, SQL, Git, HTML, CSS, C#

Personal Projects

HeadOutdoors.me ([GitHub](#) | [Live](#))

Online market to discover and book outdoor activities inspired by Viator.

- ▶ Single page application with a Rails JSON API and Backbone front-end.
- ▶ Uses custom composite view class to recursively remove subviews.
- ▶ Backbone models imitate Rails associations through custom parse methods.

ActiveRecord-Lite ([GitHub](#))

Ruby ORM inspired by ActiveRecord

- ▶ Supports basic database operations. Relies on meta-programming.

Breakout ([GitHub](#) | [Live](#))

Arcade classic re-implemented for the browser

- ▶ Uses HTML5 canvas and jQuery for dynamic graphics.

Education

App Academy — June 2015 Cohort

Full stack web development course with an acceptance rate < 5%

Rice University, Houston, TX — B.S. in Electrical Engineering, 2013

GPA: 3.7/4.0
