KAI HE

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GitHub - LinkedIn

San Francisco, CA

Experience

Consultant, Quorum Business Solutions — July 2013 - May 2015
Quorum is a Silver Lake portfolio company that provides software and services across the energy industry.

- Successfully enhanced the scheduling module to support a Fortune 500 client's expanding pipeline 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.

Research Intern, RWTH Aachen University (Germany) — Summer 2010
- Automated the testing process of an injection molding machine controller. Sped up the process approx. 5x.

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

Skills

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