Chao Cao

Software Engineer

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Skills

Ruby, Ruby on Rails, Rspec
JavaScript, Node.js, Express.js React-Redux, Jest
SQL, PostgreSQL, MySQL, SQLite, MongoDB
Git, HTML5, CSS3

Projects

Twitter States   Live Link | GitHub

Twitter data visualization app built with D3.js, Node.js, websockets, and vanilla JS.
- Accesses Twitter API live stream and analyzes tweets for location info.
- Leverages Websockets to analyze and display user tweets in real time.
- Created with D3.js visualization library to dynamically render a non-contiguous cartogram of live American tweets.

GoRead   Live Link | GitHub

Reading supplement CRUD cycle app built with Postgres, Ruby on Rails, React-Redux
- Built Jest and RSPEC test suite to catch bugs pre-deployment.
- Hosted on AWS services with EC2, Opsworks, Chef, route 53, and Jenkins
- Hand rolled user authentication method leveraging BCrypt hashing function.

Roomeez   Live Link | GitHub

Roommate finding app built with MongoDB, Node.js, Express.js, React-Redux
- Built with MongoDB to allow for continuous development of user model.
- Integrates Facebook OAuth to securely create and verify user accounts.

Work Experience

PCTest | SAR Engineer

Mar 2011 - Aug 2015
- Led equipment calibration team in charge of purchasing, servicing, installing and calibrating lab equipment
- Expertise in FCC wireless device SAR (Specific Absorption Rate) regulations.
- Mastery of SAR laboratory test procedures, and full range of RF equipment
- Expertise in 2G/3G/4G/WiFi networks and wireless devices.
- Developed excel macros for report generation and lab workflow.

Genentech | Research Intern - BA (Bioanalytical Assays) department

Summer 2007
- Researched dehydrated ELISA plate production method with 10x longer shelf life when compared with BA department's frozen plate method.
- Designed/conducted feasibility study for department adoption of dried plates.

Education

Johns Hopkins University | BS Biomedical Engineering

2005 -2009