# 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.

- Parses location data from the Twitter livestream API to construct visualization of tweet density based on location
- Leverages Websockets to manage event driven responses from the twitter API
- 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

- Hosted on AWS services with EC2, Opsworks, Chef, route 53, and Jenkins
- Hand rolled user authentication method leveraging BCrypt hashing function.
- Built Jest and RSPEC test suite to catch bugs pre-deployment.

### 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.

## Education

### Johns Hopkins University | BS Biomedical Engineering

2005 - 2009