

276 Riverside Drive,  
New York, NY 10025

# ANDREW HOUSTON-FLOYD

andrew.houstonfloyd@gmail.com  
houstonfloyd.github.io

## EXPERIENCE

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**Software Engineer**                      **turtleDB**                      **Summer 2018 - Present**  
turtle-db.github.io/

*Co-creator of a JavaScript framework for developers to build offline-first, collaborative web applications. It provides a user-friendly API for in-browser storage, server synchronization, and conflict resolution.*

- Built a Promise-based wrapper for the in-browser storage API, IndexedDB
- Built a back-end server and database adapter for MongoDB
- Created a two-way sync protocol over HTTP to share database changes between clients and server
- Developed a tree data structure to version data and track history, and algorithms to efficiently traverse, merge, and resolve conflicts in trees
- Created a front-end testing and diagnostic dashboard with React to speed up development

**Multiple Positions**                      **Avascent Group**                      **Spring 2013 - Spring 2018**

*Avascent is a leading strategy consulting firm in the defense and aerospace industry. Avascent Analytics offers a suite of market analysis products for strategic planning.*

*Senior Product Developer*

- Built schema and data pipeline in Ruby and SQL for analytics product covering 30M records of government contracts; built data model and analytics front-end with QlikView
- Executed migration of new schema and ETL processes as lead SQL developer to support product delivery worth \$3M annually
- Optimized in-memory data model of QlikView dashboards for improved performance

## SKILLS

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Front End:    JavaScript ES6, React.js, Redux, HTML/CSS, jQuery, Backbone.js, QlikView  
Back End:    Node.js, Express, Axios, Ruby, Ruby on Rails, Sinatra  
Databases:   SQL (Postgres, MSSQL, MySQL), MongoDB, CouchDB, PouchDB, SSAS  
Testing:      Jasmine, Jest, Capybara, TDD  
Other:        RESTful APIs, Git, GitHub, VBA, Excel

## Education

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**Tufts University** | Boston, MA | 2008-2012

*B.A., History*

**Middlebury College** | Middlebury, VT | Summer 2010

*Advanced Mandarin Chinese*

**Beijing Language and Culture University** | Beijing, China | Spring 2007 - Summer 2007

*Intermediate Mandarin Chinese*