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ANDREW HOUSTON-FLOYD

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EXPERIENCE

Software Engineer **turtleDB** **June 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** **Jan 2013 - May 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.

Product Developer - Senior Product Developer *Jan 2016 - May 2018*

- 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
- Optimized in-memory data model of QlikView dashboards for improved performance
- Executed migration of new schema and ETL processes as lead SQL developer to support product delivery worth \$3M annually

Market Analyst - Senior Market Analyst *Jan 2013 - Dec 2015*

- Built suite of analytics products as lead QlikView developer
- Analyzed global military procurement and built Excel/VBA models for consulting projects

SKILLS

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

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