Max **Appleton**

Software Engineer | Bay Area, CA | maxiappleton@gmail.com
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Projects

turtleDB | Co-Creator and Software Engineer | 2018 - Present | Remote
- Built a developer-friendly, promise-based wrapper for the in-browser storage API IndexedDB.
- Implemented an efficient two-way sync protocol between clients and a back-end server using HTTP to share database changes.
- Built a back-end server and database adapter for MongoDB to facilitate the sync protocol.
- Developed a unique data structure to implement document versioning, and accompanying algorithms to efficiently traverse trees, merge trees, and resolve version conflicts.
- Created a front-end testing and diagnostic dashboard using React to speed up the development process.

Skills

Front End: JavaScript, React.js, Redux, HTML, CSS, jQuery, Backbone.js
Back End: Node.js, Express, Ruby, Ruby on Rails, Sinatra
Databases: PostgreSQL, MongoDB, CouchDB, PouchDB
Other: RESTful APIs, Git, GitHub

Experience

turtleDB | Co-Creator and Software Engineer | 2018 - Present | Remote
Self-Employed/Freelance Work | Full Stack Developer | 2016 - 2018 | Remote
Albanian College | Elementary Teacher | 2015 - 2016 | Durres, Albania
Denver Public Schools | Elementary Teacher | 2011 - 2015 | Denver, CO

Education

University of Denver | Denver, CO | 2013-2014
M.A in Urban Education Curriculum and Instruction
Whitman College | Walla Walla, WA | 2007-2011
B.A with Honors in Sociology, Outstanding Senior Award, Philosophy Minor