AVSHAR KIRKSALL

Software Engineer
Brooklyn, NY

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https://avshrk.github.io

EXPERIENCE   Authorized to work in US for any employer – US Citizen.

Software Engineer   May 2019 – Present
CushionDB - https://cushiondb.github.io   Brooklyn, NY
- CushionDB is an open source database for building offline-first Progressive Web Applications.
- CushionDB is the only client side database that is able to synchronize data bidirectionally decoupled from the app.
- Recognized a need for preemptive data push (server push) to reduce web application latency.
- Reduced DOM Blocking by separating long running computation from the main thread.
- Implemented Multi-leader data replication/synchronization architecture among user databases.
- Utilized Progressive Web Application tools such as Service Workers and Push Notifications to implement bidirectional data synchronization between user databases even if the web application is closed.
- Reduced HTTP traffic by replacing long polling with event based data synchronization.
- Simplified installation by configuring and deploying Docker images for server side components.
- Co-authored a comprehensive case study (https://cushiondb.github.io) about engineering CushionDB and the design decisions we've made.

Full Stack Web Developer   2016 – Present
Mita Consulting USA Inc.   Brooklyn, NY
- Implemented custom ecommerce features for Amazon Sellers.
- Built custom ecommerce sites for Amazon sellers and integrated their web site with their Amazon Seller Accounts.

General Manager   2013 – 2016
SohoConcept   Lyndhurst, NJ
- Oversaw USA operations of marketing, sales, importing, staffing and day-to-day activities.
- Achieved 23% average increase in annual sales.

Founder   2008 – 2013
Partners Modusvivendi Inc.   Brooklyn, NY
- Founded and operated online used books sales company with over $300K annual sales

PROJECTS

Built open source web applications with Ruby, Rails, JavaScript, React, Redux, SQL, HTML/CSS
- **Postit:** A social news and discussion application similar to Reddit built with Rails, PostgreSQL, JavaScript
- **Airline Routes:** A React application that allows users to view and filter airline routes on clickable SVG map
- **Ollert:** A trello-clone with React, Redux and Rails

SKILLS

Programming Languages: Assembly**,** C, Java, Ruby, JavaScript, Perl, PHP, Shell Script, SQL, Awk, Sed
Front End: HTML/CSS, React, Redux, jQuery, PouchDB, Service Workers
Back End: Rails, Node, Sinatra, PostgreSQL, CouchDB, Docker, FreeBSD, Linux, Git

EDUCATION

Louisiana State University - Baton Rouge, LA
Bachelor of Science in **Information Systems and Decision Sciences**