AVSHAR KIRKSALL

Software Engineer Brooklyn, NY avshar@protonmail.com https://avshrk.github.io

EXPERIENCE

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 – 2019

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 ManagerSohoConcept

Lyndhurst, NJ

Oversaw USA operations of marketing, sales, importing, staffing and day-to-day activities.

Achieved 23% average increase in annual sales.

Founder2008 – 2013Partners 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