

Semur Nabiev

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EDUCATION

University of Texas at Austin

Computer Science, GPA 3.1

Aug 2013-Dec 2015

EXPERIENCE

IBM - Full Stack Developer

Jan. 2017-Present

Node/Express/GraphQL, React/Redux/Apollo/Webpack/StyledComponents, Postgress/MongoDB, SocketIO, Mocha, TravisCI, Gatsby/NextJS, Docker & DockerCompose, Nginx, Rest APIs

- Led the development of multiple applications, from the initial scoping to designing the micro-service architecture, authentication strategies, database schema design, CI/CD setup, and front end layouts.
- Increased the front end performance and reduced the application code size by developing a library that abstracted React reducers, sagas, and actions with a unified and simple to use interface.
- Improved team efficiency and code-base consistency by introducing ESLint rules, Docker, styled-components, a CI/CD pipeline template, a unit test library, and wikis.
- Simplified app authentication workflows by developing a micro-service that abstracts the internals of interfacing with the IBM SSO service.
- Led the initiative to re-architect the aging applications powering www.ibm.com/design/language and www.ibm.com/ibv by defining the app architecture, facilitating sprint planning and collaborating with a cross functional team of engineers, designers and product managers.
- Built a product development tool with a real-time comment system and a collaborative text-editor using Socket.io and a CRDT framework.

Barelt Media - Full Stack Developer

Feb. 2016-Jan 2017

Node/Express, Angular 1, Postgres/Sequelize, MongoDB, WebGL/GLSL, PHP

- Built a multi-threaded financial data feed service with crash-resilience through hot-stand-by to ensure uninterrupted up-time.
- Researched and load-tested multiple in-memory, document, key-value based and relational databases to select the highest performing database for a trading platform.
- Built an internal dashboard on the MEAN stack with authentication, real time data feeds with Socket.io, a user permission hierarchy, an SQL GUI and data visualization.
- Worked on an interactive GUI that displays real-time financial asset data using WebGL
- Built front & back end of a Multisite Wordpress Theme & Plugins that integrate 3rd party APIs and an authentication work flow

Patient Conversation Media - Front End Developer, intern

Sep. 2015-Feb 2016

Angular, indexedDB, PHP, Vanilla JS

- Increased Ad Fill from 10% to 90% through integrating and expanding the functionality of the Kaltura Video Platform to support custom URLs together with Waterfall Ads
- Rebuilt a native chrome application that uses the Kaltura Platform to stream videos from local memory
- Built social-sharing into www.dailyrx.com & www.rxwiki.com

JunebugWeddings - Front End Developer, contract

Dec.2015-Mar 2016

JS, SCSS3 & PHP, AWS

- Designed & rebuilt the front & (partially) back-end of a high-traffic site for an Austin-based media company: www.junebugweddings.com

ACADEMIC

- Expanded an existing code base with 3 partners to fully implement a toy **Operating System** (Pintos) with: priority scheduling, system calls, virtual memory, and a multilevel indexed file system in C Aug 2013-Dec 2016
- Built a Pipelined CPU with a Memory Cache in **Verilog**, used parts of the Tomasulo Algorithm for out of order execution
- Developed a simplified Pascal Compiler (including the back-end code generator) in **C, Lex & Yacc**
- Collaborated with a team of 4 to build a web application with **Python (Django), Angular 1, Bootstrap**