

# Semur Nabiev

Austin, TX

[semur.nabiev@gmail.com](mailto:semur.nabiev@gmail.com)

[medium.com/@semur.nabiev](https://medium.com/@semur.nabiev)

[github.com/sockol](https://github.com/sockol)

## 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](http://www.ibm.com/design/language) and [www.ibm.com/ibv](http://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 3<sup>rd</sup> 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](http://www.dailyrx.com) & [www.rxwiki.com](http://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](http://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**