

# Quick overview

## Most important work

### Ongoing work on Logistics Software for honestbee

I help build frontend UI and backend API features with TDD principles for internal facing Logistics tools, while keeping in mind the needs of multiple stakeholder dimensions.

### Rewrite of a legacy codebase in ReactJS & Node.js

I rewrote the entire stack of a budding startup that was struggling with an unscalable, buggy codebase consisting of PHP and jQuery code, to a React/Redux based frontend and AWS powered Node.js backend infrastructure. They launched within weeks and achieved seed funding shortly after.

Main technologies utilized: **ReactJS, Redux, ES6, Node.js, Amazon AWS include**

### Worked on the Backend for Gut Check™ app (Johnson & Johnson)

An app that helps IBD patients report treatment outcomes to their specialists in a convenient, consistent & secure way. I implemented a complex architecture for authentication & data flow, while helping out with production grade infrastructure building for the APIs.

Main technologies utilized: **Node.js & Mongo based mBaaS, HIPAA Storage APIs, Laravel 4, Amazon AWS, Angular JS**

## Strongest technical skills & areas of expertise

### Programming languages I prefer to use

- JavaScript [production experience] [ES6 knowledge]
- Ruby on Rails
- PHP
- Node.js

### Platforms and Tools I have experience with

- Go
- Realtime Servers
- Docker
- mBaaS services (Kinvey)
- Laravel (3, 4, 5)
- AngularJS, loDash
- Git SCM
- Debian based Linux distros [Debian, Ubuntu and variants]
- JS tooling: RequireJS, Grunt, Bower, Yeoman, Gulp
- PHP tooling: Composer, PEAR
- Drupal 6 and 7
- CodeIgniter
- OpenCart
- jQuery

## Technologies and Fields I'm excited about

- Realtime servers & DBs: Deepstream, RethinkDB
- Machine Intelligence Systems: Tensorflow, Prediction.IO
- Huge Scale Infrastructure management: Kubernetes, Mesos, Docker Swarm
- New age database systems: CockroachDB, InfluxDB and more
- Infrastructure Security at OS and Network level

## Some technology I've built, listed most recent to oldest

**Systems that were divided in two parts: an API backend, and an independent JS frontend.**

**An Industry-level Data Management system.**

Backend:

- + An "API to represent entire industries".
- + Serving more than 30 different endpoints.
- + Served multiple kinds of stakeholders, with each kind having different levels of requirements.
- + Allowed higher level stakeholders to manage access control on lower levels.
- + A flexible taxonomy system based on the concepts of Tags and Tag Categories.
- + A flexible data-asset management system based on the above taxonomy system.

Frontend:

- + About 20 screens, with many different interactive elements.
- + Token based access management system.

**Main technologies utilized: Laravel 4, Angular JS**

**B2B marketplace.**

Outline:

- + Listing of several categories of offerings to be browsed.
- + Endpoints allowed querying of data by various parameters.
- + Access control system.

Key skills learned:

- + Building an ecommerce like viewing layout with AngularJS.
- + Implemented a token based authentication scheme that allowed frontend to track server sessions.

**Main technologies utilized: Laravel 4, Angular JS**

**CRM application built for a car rental company.**

Outline:

- + App to manage Clients, Contracts, Assets and Employees of the company.
- + Provided CRUD operations and PDF generation for each category.
- + Managed data relationships between these entities.

Main technologies utilized: **Laravel 4, Angular JS**

**Legal Document and Compliance Management system**

Outline:

+ App for a major retailer to manage legal compliance status for a global network of suppliers.  
+ Two different frontends for the retailer vs. the suppliers.  
+ Emailing system that kept track of non-compliant suppliers and sent reminders to ensure they did.

Key skills learned:

+ Implemented a highly secure JWT based authentication scheme:  
<http://security.stackexchange.com/q/64541/5611>

Main technologies utilized: **Laravel 4, Angular JS**

**Plain systems without a separate frontend being served**

**Codebase rewrite for a Cryptocurrency marketplace**

Outline:

+ Laravel rewrite commissioned for a cryptocurrency marketplace written in plain PHP.  
+ Project abandoned due to time constraints of client, but I learnt a few things when building this.

Key skills learned:

+ Built social login into the system.  
+ Built a 2 factor auth system integration into the social login, as of this writing no such package exists yet for Laravel.

Main technologies utilized: **Laravel 4, Cartalyst\Arsenal, GAuthify**

**Older pieces of experience**

**AngularJS**

- After writing a jQuery application for the rockn signup project (details below), I was looking for a change to cleaner code that was easier to maintain. So we rebuilt in Angular. Modular and much shorter code was the result. This was my first intro to Angular.
- An exploratory UI for an event info app. This was a jQuery plugin we saw elsewhere that I recreated as an Angular directive.

**Sysadmin and Linux:**

- Worked on creating a scalable infrastructure for hosting openstreetmap servers (similar to the work of mapbox). The plan was to start a SaaS offering for hosted maps. We had the technology down, but we did not develop the SaaS platform to sell it out of.

#### CodeIgniter:

- Had built a Workflow management system, customized for one particular Italian bank's requirements.
- Built a 'goal tracking' app, similar to HabitRPG but less complex.

#### Drupal:

- I had built a 'casesheet management system', distributed to a couple Physiotherapy clinics. It allows doctors and their staff to fill out a form with the patient's detailed case history, and later browse these. A digitization of the usual paper-based way of doing things.
- Had written a module to change how checkout works, to provide custom prorated pricing depending on actual dates of utilization, for CloudVirtualOffice.

I've also done a large amount of non-complex website work, in addition to some ancient, custom-built PHP apps, admittedly many of those are offline, so I have skipped mentioning them.

## Personal information

Date of birth: July 1990

Spoken language proficiency: English (excellent written and verbal skills), German (very basic spoken & written skills), Hindi, and Telugu

(This [living \(http://github.com/adityamenon/resume\)](http://github.com/adityamenon/resume) document was written in [Markdown \(http://daringfireball.net/projects/markdown/\)](http://daringfireball.net/projects/markdown/), then converted to PDF format with [markdown-pdf \(https://npmjs.org/package/markdown-pdf\)](https://npmjs.org/package/markdown-pdf). Go web technologies!)