Alejandro Hernandez 🛡️

Cordoba, Argentina • Member since August 30, 2012

Alejandro got his Bachelor's in software engineering eleven years ago, and since then has been working for software companies of all sizes from all around the globe as a freelancer. Currently, he enjoys working as the technical lead on JavaScript projects, where his deep understanding of architecture and theory is most impactful.

| Full Stack | JavaScript | jQuery | Node.js | React.js | Oracle PL/SQL |

| SQL | Agile Software Development | GitHub | Git | AJAX |

| Adobe Fireworks | Web Services | Cloud Computing | Socket.IO | Ember.js |

PORTFOLIO

DBMS Insight
React.js Redux D3.js

Globa.li
React.js, Redux, Node.js, Express.js, MongoDB

Nifti.com
JavaScript, jQuery, D3.js, Raphael.js

EXPERIENCE

JavaScript, 10 years

Redux, 1 year

Node.js, 5 years

React.js, 1 year

Polymer, 1 year

D3.js, 1 year

SQL, 5 years

WebRTC, 1 year

AVAILABILITY

Unavailable

PREFERRED ENVIRONMENT

Mac OS X, Sublime, Git, Node.js

THE MOST AMAZING...

"...thing I've built is a multi-player 3D Pong game in HTML5: distributed UX, rendered in WebGL/Three.js, controlled by accelerometers, connected with Socket.IO."

EMPLOYMENT

JavaScript Front-end Engineer
DBMS Insight

2016 - 2016

- Worked with a React.js/Redux environment on a major enterprise product already in production.
- Helped integrate charts libraries based on D3 and React.

Technologies: React.js Redux D3.js

Full-stack JavaScript Engineer
Globa.li

2015 - 2016

- Created a new front end app based on React and Redux.
- Added a Hot module replacement plugin to Webpack.
- Worked with legacy code on the server side, able to understand the principles behind it and make it work again.

Technologies: React.js, Redux, Node.js, Express.js, MongoDB

Front-end Engineer
Nifti.com

2013 - 2014

- Created reusable D3.js charts using Raphael.js to draw SVG on browsers.
- Handled responsive design layouts for views.
- Implemented reusable components for UX using jQuery.
- Created an xQuery Selector generator from an HTML Element DOMNode.
- Created a Pop CSS editor for elements.

Technologies: JavaScript, jQuery, D3.js, Raphael.js

Technical Leader
2011 - 2013

Globant

- Did advanced JavaScript functional programming.
- Designed a MongoDB database.
- Created one-page apps with Backbone.js and Ember.js.
- Developed software using RESTful APIs with Node.js and Express.js.
- Handled JavaScript UX framework prototyping.

Technologies: JavaScript, HTML5, MongoDB, Node.js, Express.js, Backbone.js

Business Intelligence Consultant
2008 - 2011

America Movil (AMX)

- Developed a reporting and decision support system.
- Designed the data warehouse.
- Implemented an ETL process.
- Designed reports and data visualization.
- Configured SharePoint.

Technologies: MS SQL Server, Integration Services, Analysis Services, Reporting Services, PL/SQL, SharePoint

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EXPERIENCE

An Introduction to Full-stack JavaScript (Other amazing things)
http://www.smashingmagazine.com/2013/11/introduction-to-full-stack-javascript/

An article I wrote on how to develop applications end-to-end using only JavaScript from the client side to the server side, and even as a query language to the database side. The article was syndicated by Smashing Magazine.

Toptal Academy - React.js (Other amazing things)
https://www.youtube.com/playlist?list=PL6nqmerUSyVHKn5g0CpkHvtCycEylazGl

I was in charge of the Toptal Academy for React.js program were we help other toptalers to understand new technologies

Toptal Academy: AngularJS (Other amazing things)
https://www.toptal.com/events/2015-06-11/toptal-academy-angularjs

A crash course on AngularJS that I taught for the Toptal community in Córdoba.

Toptal Buenos Aires JavaScript Conference (Other amazing things)
https://www.toptal.com/events/2014-10-25/toptal-javascript-buenos-aires

A talk on ECMAScript 6 and Koa.js using generators, which are the most fascinating feature of ES6.

ASCII Cam (Other amazing things)

http://picanteverde.github.com/bucefalo-html5/ascii.html

I created an ASCII Cam to create ASCII art from live video from the web cam.

Augmented Box (Other amazing things)

http://picanteverde.github.com/bucefalo-html5/examples/tquery/box/box.html

A simple augmented reality game to hit the character on the screen controlling the ball using this marker:
http://bit.ly/UCXOe0

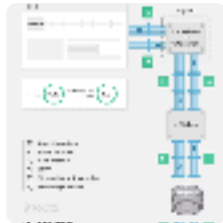### Polymer.js: The Future of Web Application Development? (Publication)

https://www.toptal.com/front-end/polymer-js-the-future-of-web-application-development

A year after Google's launch of Polymer, Toptal engineer Alejandro Hernandez takes it out for a test drive to see if it's yet ready for prime time. This post explores the maturity and stability of Polymer.js as a foundation for large-scale application development. The results and conclusions from this analysis are provided, along with an introductory overview of the technology.

Init.js: A Guide to the Why and How of Full-Stack JavaScript (Publication)

https://www.toptal.com/javascript/guide-to-full-stack-javascript-initjs

After much thought, I decided to engineer a solution to the idea abandonment problem. I call it the 'Init' project (or Init.js). The core of the idea is to have a single project to start them all, to let the developer or the technical founder make all of the essential decisions at once, and receive an appropriate starting template based on those decisions.

SKILLS

Languages
JavaScript, EcmaScript 2015 (ES6), ECMAScript, ES6, JScript, ES7, SASS, Oracle PL/SQL, SQL, LessCSS

Frameworks
Marionette.js, Redux, Express, Connect.js, Mocha, AngularJS, Ember.js

Libraries/APIs
Backbone.js, jQuery, React.js, Node.js, D3.js, Polymer, YUI, RequireJS, Pixi.js, Three.js, WebGL, EaselJS, Socket.IO, jsSHA, WebRTC, Handlebars

Tools
Node Inspector, Gulp.js, Grunt, Babel, Apache, Mercurial, Solr, Adobe Fireworks, Git, GitHub, Redmine, JIRA, Jenkins

Misc
Webpack, Cloud Computing, RESTful, Document Object Model (DOM), Web Services

Paradigms
Prototype-based OOP, Parasitic inheritance, REST, Functional programming, AJAX, Agile Software Development, Asynchronous Programming

Storage
SQL Server, MongoDB, Redis, NoSQL, MySQL

EDUCATION

Bachelor's degree in Software Engineering   2000 - 2005
Catholic University of Cordoba - Cordoba Argentina