Joel Douglass

Principle Web Developer · Boston, MA · joel@joeldouglass.com · (857) 998-0462

About Me

I'm a full stack developer with over 15 years of experience in software and web development. Lately, I've been into data—visualization, communication and management systems—as a *Principal Developer* at **Velir**, where I lead the Data Visualization practice area. On the tech side, I'm most experienced with Javascript (browser or Node.js) and .NET (C#, ASP), but I consider myself a polyglot and have dabbled in everything from C, C++ and Java to Clojure.

Notable Projects

Shift Workers by the Numbers - Purpose Campaigns   2018
Communicating large numbers is hard. This custom visualization attempts to effectively show the large number of U.S. citizens that are affected by a variable work schedule. *Lead Developer* · *WebGL, three.js, React.js* · https://workshift.us/numbers

Quality-Spending Interactive - Commonwealth Fund   2018
Healthcare performance varies widely across the U.S. In this custom visualization, health care quality is contrasted with spending by U.S. state. *Lead Developer* · *D3.js, AngularJS* · http://tools.commonwealthfund.org/interactives-and-data/spending-vs-quality-interactive

CMS Hospital Quality Chartbook - Centers for Medicare and Medicaid   2015-present
This collection of data visualizations aims to compare hospital quality statistics around the country. Management of data and content using Drupal. *Visualization Lead, Developer* · *Angular.js, D3.js, Drupal* · https://cmshospitalchartbook.com

Nationwide Adult Medicaid CAHPS - Centers for Medicare and Medicaid   2016-17
The NAM CAHPS survey is administered to capture baseline estimates of adult Medicaid enrollees' experiences with the health care system. This site was built from the ground up to communicate the results. *Lead Back End Developer* · *ASP.NET, SQL Server, React.js, D3.js* · https://nam-cahps.medicaid.gov

The Kauffman Index - Ewing Marion Kauffman Foundation   2016
A custom mini-site who's goal is to communicate entrepreneurship statistics around the country. This data exploration site was built into the Foundation's existing Sitecore implementation. *Lead Developer* · *Node.js, PostgreSQL, Sitecore, React.js, D3.js* · https://www.kauffman.org/kauffman-index

AARP Data Explorer - Annie E. Casey Foundation   2015-16
Built for the AARP Public Policy Institute, this data exploration site allows on-demand publishing of new data and updates. *Tech Lead, Developer* · *ASP.NET, SQL Server, Angular.js, D3.js, Highcharts.js* · https://dataexplorer.aarp.org

What Would Happen if Health Care in your State Improved? - Commonwealth Fund   2014-17
This custom interactive lets visitors explore how health care performance might be different if their state performed as well (or as badly) as other states. *Lead Developer* · *D3.js, AngularJS* · http://tools.commonwealthfund.org/interactives-and-data/estimated-impact-interactive

Kids Count Data Center - Annie E. Casey Foundation   2013-present
The Kids Count Data Center project is designed to communicate childhood wellbeing data. Built to support 50+ grantees around the U.S. uploading and publishing new data daily. *Lead Developer* · *ASP.NET, SQL Server, Backbone.js, Highcharts.js, Openlayers.js* · https://datacenter.kidscount.org

Kidsdata.org - Lucile Packard Foundation for Children's Health   2013-present
Similar to the Kids Count Datacenter, but narrowing in on detailed data in the state of California. Kidsdata.org includes a highly customized administration interface for publishing new data and content. *Lead Developer* · *ASP.NET, SQL Server, Backbone.js, Highcharts.js, Openlayers.js* · https://www.kidsdata.org

Employment History

Principal Developer, Data Visualization Practice Lead - Velir · Somerville, MA   2013-Present
  · Consult on company strategy for data visualization and communication projects
  · Evaluate and adopt emerging tools, languages, and frameworks
  · Design and document practice area workflows and processes
  · Contribute estimates and technology/system proposals to business development teams
  · Lead both front and back end project teams by assigning tasks and tracking progress

Senior Developer - Velir · Somerville, MA   2010-13
  · Led project development teams by assigning tasks and tracking progress
  · Designed custom web applications built on the Sitecore CMS and other platforms
  · Estimated new project and enhancement work

Web Developer - Velir · Somerville, MA   2008-10
  · Worked closely with lead developers to turn designs and requirements into functioning web applications.
  · Contributed to new application builds on the Sitecore CMS
  · Maintained legacy systems built on ColdFusion, Classic ASP and Perl

Senior Systems Engineer - General Dynamics, C4 Systems · Needham, MA   2003-06
  · Designed, developed, and executed a full test suite for custom Network Interface (NIC) hardware
  · Held a U.S. DoD SECRET security clearance

Education

B.S. Computer and Systems Engineering - Rensselaer Polytechnic Institute · Troy, NY   1999-03
  · Concetration in Control Systems
  · Graduated Summa Cum Laude