

Ivan Ramiscal

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34 N Fenwick St. Arlington Virginia, 22201

Profile

Software solutions architect and engineer with extensive experience designing, developing and deploying software systems. A trusted technical advisor specialized in guiding customers with the art of the possible.

Experience

SOLUTIONS ARCHITECT • MAPBOX • WASHINGTON,DC. MAR 2019 - NOV 2020

Ivan provided expert technical guidance to Fortune 500 companies on their system architecture and design challenges with big data geo-data visualizations and location data. A technical advisor to companies such as NBCUniversal, Ford, GM, SwissRe, GuyCarpenter, Moody's and PSEG, providing guidance with the art of the possible proof of concept prototypes, and in-depth system architecture and system design reviews. Hands on experience developing software projects with javascript, node, ruby and swift.

LEAD SOFTWARE SYSTEMS ENGINEER • THE MITRE CORPORATION • MCLEAN VA. OCT 2010-MAR 2019

Software engineer lead in Software Solutions and Technologies department

Software Engineer, Hedonometer

Daily Twitter sentiment detection using D3, Ruby, AWS; designed and developed website and data visualizations. <https://hedonometer.org/about.html>

iOS Developer, Mild Traumatic Brain Injury MITRE Innovation Project

Ported MatLAB algorithm to C using MatLAB coder; implemented in iOS iPad app to analyze user performance in visuomotor test results.

Lead Developer, Illustration-centric Data Visualization Development

Browser-based toolkit to facilitate the creation of data visualizations.

Lead Developer, Continuous Immersive Systems Engineering

Anonymous sentiment elicitation survey system; an iPad app to capture honest feedback from reviewers; used by the US Census in 2020, Census Field Infrastructure Session.

SENIOR TECHNICAL ADVISOR • THE MITRE CORPORATION • MCLEAN VA. 2016-2019

Developed the mentoring strategy, built collaboration and management tools to improve department communication between management and staff; instituted weekly Software Hangouts and Lightning Talks for knowledge sharing and department team building.

SOFTWARE ENGINEER TEAM LEAD • SRA INTERNATIONAL • FAIRFAX VA. 2004-2010

Project Lead • Department of Justice, Office of Justice Programs, Web/Portal Team
Led the Web/Portal team in the development and management of web apps tool suite and web sites at the Office of Justice Programs OCIO.

Software Developer • Pension Benefit Guaranty Corporation

Created programs using XML, XSLT, XPATH and XPointer. Analyzed XML data, implemented XSLT stylesheets to target and extract specific data from XML files to build their website.

SYSTEMS ANALYST • SCHAFFER CORPORATION • ARLINGTON VA. 2001-2004

Detailed analysis and systems design of software system simulations.

Software developer for a C4ISR information architecture tool for the Joint Theatre Air and Missile Defense Organization (JTAMDO)

Project Lead of US Air Force Research Laboratory (USAFRL) Small Business Innovative Research (SBIR) project. Enable USAFRL users to search archived Microsoft PowerPoint slides, and Microsoft Word documents.

SOFTWARE ENGINEER • WORLDWEB.NET • ALEXANDRIA VA. 1999-2001

Built import export tools between QuarkXPress and the ExpressRoom Content Management System.

SOFTWARE DEVELOPER • WJSA • ARLINGTON VA. 1996-1999

Detailed analysis and systems design of software system simulations

Developed C4ISR information architecture tool, using Java, XML, XSLT and SVG, for the Joint Theatre Air and Missile Defense Organization

Developer on Information Architecture Dynamic Model development team for the National Missile Defense Lead System Integrator

Constructed 3-D model of the Space Based Laser constellation of satellites. Developed in VRML, CosmoPlayer, VRMLScript, and HTML.

Education

University of St Andrews – BSc Pure Science
Corcoran School of Art – Digital Art & Digital Video

Teaching

Johns Hopkins Applied Physics Laboratory
Exploring Data: Visualization
<https://www.atcourses.com/events/125-exploring-data-visualization/>

MITRE Institute
Data Visualization as a Deployable Service with Ruby & D3
Data Visualization for Complex Systems

Recognition

MITRE Director's Award
Bringing Real World STEM
<https://www.mitre.org/about/corporate-social-responsibility/building-a-foundation-for-the-future/bringing-real-world-stem>

SRA Employee of the Month CFGO

Projects

Devised solution to create broadcast quality map animations for a Big Three television network in the US. This solution enables the creation of map animations for breaking news in minutes.

Clustered data <https://vimeo.com/435368351>
Broadway 3D Buildings <https://vimeo.com/454526671>
Grand Canyon <https://vimeo.com/435368452>

Obstacle Avoidance Algorithm
Designed and developed client-side obstacle detection and route avoidance.
<https://docs.mapbox.com/help/tutorials/route-avoidance-with-turf-mapbox-directions>

COVID Movement Story

Built COVID story with Mapbox Movement

<https://vizla.s3.us-east-1.amazonaws.com/movement/index.html>

Feature Extraction Story

Built Feature Extraction Story with Mapbox Imagery

<https://vizla.s3.us-east-1.amazonaws.com/imagery/index.html>

Location intelligence dashboards

Designed and developed highly performant large scale location intelligence dashboards with turn-by-turn navigation, geolocation, satellite image cards. Developed emergency dashboard prototype; Built border wait times dashboard prototype.

Store Locator Concepts

Tightly integrated and responsive updating of the information panel when zooming and panning through the map.

Best Buy Store Locator

<https://bl.ocks.org/ivaner/cf7a7e084235905eefba9f4fbf7d374e>

Red Roof Inn Store Locator

<https://bl.ocks.org/ivaner/e4f321e81632e0442daee5583add0b04>