

## Ivan Prokic

[www.ivanprokic.com](http://www.ivanprokic.com)

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Full Stack Developer/Architect, results-oriented, success-driven, enterprise oriented, positive, humble, scientific, empathetic, collaborative with over 20 years of industry experience and insatiable desire to learn and grow.

### SKILLS:

Languages	JavaScript, ES6 ES7, TypeScript, PHP, Functional/ Reactive Programming RxJS, Streams, ActionScript 3 and 2, HTML5, HTML, XHTML, SQL
Messaging	Kafka, NATS Streaming
API	GraphQL, REST, SOAP, JSON-RPC
CI/CD Technologies	Kubernetes, Harness, Concourse, GitLab, Semaphore, CircleCI, Jenkins, Terraform Node.js, React ((hooks, context API Sagas)), Apollo, Redux, GraphQL RxJS Streams, Kafka Transactional Streams, NATS Streaming Server, Functional Programming, Ramda, Angular, Backbone, PHP, Ajax, XMLHttpRequest, jQuery, Adobe Flex 3 and 4, Web Services (SOAP, REST), XPath, WebSockets, JSON, XML, XSLT, CSS3, Styled Components CSS in JS
Frameworks	React/Redux, NestJS, Laravel, Zend, Angular 1 2 5, Backbone, Dva, Marionette, Robotlegs, PureMVC, Cairngorm, ExtJS,
UI Frameworks	Ant Design, Material UI, Bulma, Bootstrap
Databases	PostgreSQL, MySQL, MongoDB, Oracle, Microsoft SQL Server
Agile	Kanban, Scrum
IDEs	VS Code, PyCharm, Webstorm, PHPStorm,, Zend Studio, Eclipse, NetBeans, Flash Builder, FlashDevelop, Flash CS5, Visual Studio
Operating Systems	Mac OS, Windows, Linux
Tools	Git, Lerna, DevTools, FlexUnit, Flex Profiler, DeMonster Debugger, Flash Tracer, Firebug, Ant, Subversion (SVN), CVS
3D Tools	3D Max, Swift 3D, Cinema 4D, Rhino 3D, Poser 6, Papervision3D, Sandy 3D API
Multimedia	Video capture, editing, compression, optimization and compositing Sound editing for multimedia projects 3D library and custom class usage and scripting, 3D modeling and animation Streaming media conversion and distribution Post production video editing and special effects for use on the web and presentations Interactive media development and custom skinning

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Design OOD/OOP, UML, Use Case, Activity diagramming, Database modeling and design  
Storyboarding, layouts and concept development, Wireframing and prototyping

Project Search Engine Optimization (SEO)  
Flash compatibility, detection, and optimization  
Color and typography theory, composition layout techniques  
Cross-platform / cross-browser compatibility  
Excellent problem solving, communication and collaboration skills  
Work well independently and as a team member  
Quickly become productive with new technologies and software solutions

## EXPERIENCE:

April 2022 - September 2022 **Roster of Experts: SWE (UNDP) in Serbia**

Software Development (Web Applications):

- Development of web applications, web databases and blockchain-based web applications;
- Customization of existing web applications
- Web applications testing and troubleshooting

Software Development (Websites):

- Developing CMS-based custom websites;
- CMS theme adaptations
- Designing web pages layout
- Editing website templates;
- Developing custom CMS modules.

October 2019 - November 2021 **Senior SWE Zego powered by PayLease, San Diego CA**

Working on all stacks of company projects to all pipelines in moving money as the core company business

- Researched and implemented transformation NodeJS microservice in ETL pipeline using open source Pentaho IDE Java based visual tool to take xml input and upload json output.
- Worked on extraction service from company's integration partners APIs that triggers transformation service using Kafka messaging queue
- Worked on upload service that listens for Kafka transformation events to upload data to internal data warehouse
- Helped on biggest Property Management deposit service client integration
- Enabled OAuth integrated banking using Plaid API in Zego web and mobile applications
- Applied best testing practices, BDD, Unit, Integration, E2E, Acceptance

Key technologies: NodeJS, Kafka, Docker, PHP, Laravel, Eloquent, React, React Native, Redux-Saga, React Hooks, GraphQL, Concourse, Jenkins, Concourse, Harness, Kubernetes

April 2019 – October 2019     **Lead Frontend Architect TV Page**, San Diego CA

Architected designed and integrated ambassador and merchant core applications into a single V4 themed, localized platform. Increased development velocity by building TV Page hub builder, the core product as a configurable themed localized engine for mass production of TV Page hub pages

- Architected developed and integrated Ambassador / Merchant platform consolidation into V4 Typescript, Jest / Enzyme, Webpack, Babel, core, reusable, agnostic, tested, localized, theme-able “plug ‘n play” react components
- Architected developed and integrated "design system" as a core library based on tested styled components using atomic design presented in Storybook and extracted into NPM package for reuse and development velocity and automation of company “Experience HUB” product
- Led 5 developers and provided knowledge transfer of implemented technologies

Key technologies: TypeScript, React, Redux-Saga, React Hooks, React Context API, Styled components, Redux, Node.js, Ant Design Pro, Promises, JSON, Webpack, Babel, Git, Functional Programming, Async JS, Jest, Enzyme, TDD, Storybook, CSS-in-JS

Jan 2017 – April 2019     **Sr. Frontend Developer Canary Health**, Los Angeles CA

Led front end redesign, code rewrite and consolidation of company products into single Platform UI

- Integrated GraphQL / Node.js / Nest.js framework gateway for handling RPC, RESTful and GraphQL API
- Integrated Authentication in Nest JS Apollo GraphQL stack
- Integrated Apollo 2 client with GraphQL, Antd UI and DVA lightweight Redux based framework
- Refactored stepped registration in Apollo GraphQL stack
- Developed stepped registration system in Redux/Sagas/DVA/Antd stack
- Configured multi language support / internationalization in registration app
- Consolidated action plan board, discussion center, private messages comments into single component
- Created reusable dropdown menu action plan, discussion center, private messages, available workshops and admin tools in “Better Choices Better Health” application
- Created dozens of reusable custom based internationalized components using React hooks

Key technologies: TypeScript, React, React Hooks, Redux-Saga, Apollo 2.1, Redux, Dva, Node.js, Nest.js, Ant Design Pro, GraphQL, RxJS, Promises, JSON, Webpack, Babel, Git, Functional Programming, Async JS, Proto buffers, Introspection, Persisted queries, Jest, Enzyme

Nov 2016 - Dec 2017     **Consultant, Full Stack Architect Developer, Tehnicom Solutions**, Serbia

Architected and led team of 4 developers to build first SPA gambling application (www.playlogiq.com) currently present on the market in high frequency, fast paced, deeply nested data exchange WebSocket API

- Provided technology research and comparison between React Redux over Angular
- Led front end effort in establishing look and feel in building all website layouts
- Led UI/UX effort in building prototype mockups establishing product feel and flow
- Architected frontend React/Redux and back NodeJS highly decoupled application using HOC and Mixins for component reusability
- Developed and configured React middleware for communication with WebSocket based API to integrate application Content Management System, Authentication, Internationalization, 3rd party Payment Processor API and 3rd party Casino API
- Integrated industry leader BetConstruct API and provided query optimization for performance improvement

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- Created off-site demo for presentational purposes by collecting BetConstruct API stream data in MongoDB
- Built many algorithms for casino bet slip data calculations and application search engine
- Integrated Notification, Logging, Alerting and Error Management Systems

Key technologies: React, Redux, WebSockets, NodeJS, MongoDB, RxJS, Promises, Immutable, Reselect, Ramda, JSON, Photoshop, Webpack, Babel, Raven, Sentry, Yarn, Git, Functional Programming, Async JS

Oct 2012 – Oct 2016      **Senior SWE, Bluehornet**, San Diego, CA

Integrated RESTful API in Bluehornet Email Management System application. Architected designed and developed a thin front-end layer on top of Zend backend using Backbone and Marionette microarchitecture combining 25 additional technologies for better view binding, custom logic-less templating, automated builds, obfuscation etc. Developed Client/Server Hybrid Validation form system fed by single validation rules source. Developed many internal admin tools to facilitate and optimize job processes. Introduced and integrated data visualization in EMS

- Introduced Data Visualization to EMS application (HighCharts, D3.js, Crossfilter)
- Introduced RESTful API to EMS application
- Architected designed developed and integrated custom Form Builder application in EMS
- Architected developed and proposed HTML Editor Angular based app to EMS
- Architected and developed Hybrid Validation System using single rules as input on both front and backend.
- Architected, designed developed and integrated backend Form Rendering System based on Zend Form and extending look and feel decorators to use Bootstrap 2 and 3 markup
- Architected designed and developed DKIM tool for applying DKIM email signatures and maintaining DKIM SVN repo through UI
- Maintained and enhanced link tracking analytics using MongoDB

Key technologies: Angular 1 2, Zend 1.12, RESTful API, PHP, Backbone, Marionette, D3.js, DC.js, Crossfilter.js, Require.js AMD, JSON, JavaScript, jQuery, Web Services, CSS, less, XML, SVN, Git

Jan 2010 – July 2012      **Sr. Software Engineer, Skinit**, San Diego, CA

Redesigned and refactored existing Customizer V3 application from ActionScript 2.0 to ActionScript 3.0 coding standards built on Robotlegs dependency injection-based Flex framework. Added catalog, multi device, multi-lingual and image gallery API support to the continuously integrated Customizer application that resulted in revenue of 10 million a year.

- Designed, implemented and tested Font Management, Notification, Analytics, AB testing, Tooltip, User Messaging, and Preloading systems utilizing Robotlegs DI framework in Customizer V3
- Designed and developed complex CSS and external skin based custom spark components
- Integrated Customizer V3 with JSON-based Skinit Catalog
- Integrated Customizer V3 with Facebook, Photobucket, Flickr, Picasa APIs
- Revamped the Customizer V2 UI look-and-feel, improved user experience for Customizer application that resulted in a 20% revenue increase.
- Designed and developed multi language Customizer support, Font Management System, Notification System, AB testing system for Customizer V2

Key technologies: Robotlegs, ActionScript 3, PHP, Apache, JSON, JavaScript, Web Services, CSS, XML, SVN

June 2009 – Jan 2010      **RIA Software Engineer, Skinit**, San Diego, CA

- Provided Customizer AS2 support and per-client based project integration (Disney, T Mobile, Marlboro, Nokia, Microsoft, ResMed)

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- Migrated and ported third-party Bunkspeed 3D platform to Ogre/3D MAX/Customizer on demand 3d customization system, saving the company server fees and delivering a faster, more responsive solution
- Redesigned and developed FUJI Kiosk system that leverages SOAP-based web service and integrates with Skinit ordering process flow
- Developed algorithms for image placement and processing in Customizer application
- Engineered software development environment and introduced remote debugging
- Migrated back-end file system to Mogile FS tracker-based distributed file system

Key technologies: ActionScript 2.0, ActionScript 3, PHP, Apache, jQuery, JavaScript, Web Services, CSS, XML, XPATH, SOAP, SVN, 3D Studio Max, C++

May 2007 – March 2009      **Sr. Interactive Developer, Bailey Gardiner, San Diego, CA**

- Designed and developed company's portfolio web application using Flex/PHP/MySQL
- Designed and developed Flex Lightbox web application that connects to Google Analytics, allows users to create customized portfolios and send them in the form of a newsletter
- Designed and implemented cutting edge, cross-browser Web 2.0 sites, full flash sites, flash intros, customized flash media players, flash news-stickers, flash RSS feeds for the company's clients
- Brainstormed concepts, designed storyboards and developed over 100 flash banner campaigns and email newsletter brand campaigns
- Designed and developed administrative Lightbox analytics application that takes user login and based on credentials visually represents portfolio analytics using Flex Charting/PHP/MySQL
- Designed and implemented AIR RSS library desktop widget to facilitate RSS feed storage accessibility
- Developed and maintained company blog: generated high traffic volume and improved rankings using the latest online marketing and search engine optimization (SEO) blogging techniques

May 2006 – May 2007      **Flash Developer, Geary Interactive, San Diego, CA**

- Designed and developed media player apps with bandwidth options for optimum streaming
- Designed and implemented interactive content for the company's web presentation that won first place at the regional level and became a contender at the national level ([www.gearyi.com](http://www.gearyi.com))
- Produced motion graphics seasonality comps and effects for the *Sahara Vegas Hotel* ([www.saharavegas.com](http://www.saharavegas.com)) using Adobe After Effects
- Storyboarded, conceptualized and optimized banner campaigns for Marriott Hotel, University of Phoenix, Wesley University, Montreat College, Altitude Skybar, Soleil@k Restaurant, etc.
- Designed and optimized 3D assets and animation effects for Packet Video Mobile applications.
- Performed extensive video and audio edits, compression, optimization for NetStreaming FLV's and their progressive downloading on the Web

Dec 2004 – May 2006      **Multimedia Animator/Developer, Einstein Industries, San Diego, CA**

- Designed and implemented media player applications
- Designed and implemented dynamically fed gallery application with before and after animation features
- Manipulated and integrated videos and stills, produced rich motion graphics and composite elements using Adobe After Effects
- Produced and optimized 2D and 3D pieces for interactive animation purposes to enhance web presentations, improved communication about products and services and achieve higher conversion rates
- Performed extensive video and audio edits, compression, optimization for NetStreaming FLV's and their progressive downloading on the Web

June 2003 – Dec. 2004      **Web Designer, Einstein Industries, San Diego, CA**

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- Developed highly creative and original websites for the clients. The solutions were implemented in Adobe Photoshop, with the use of style sheets and in accordance with the industry web standards (W3C). Intrinsic cross-browser support was built in as well
- Utilized the latest Search Engine Optimization techniques to develop websites that would achieve high ranking and positioning in the major search engines
- Maintained direct contact with clients to determine their needs and shape the direction and vision for the website look-and-feel, layout and flow

June 1999 – June. 2002      **Web Designer Application Developer, University of Wisconsin, Superior, WI**

- Implemented web-based rental inventory application to manage sport requisites for the Department of Residence Life at the University of Wisconsin. The solution was implemented in ColdFusion
- Developed database access layer to handle multiple sessions and transactions in the recreational activities web application. Implementation utilized SQL, stored procedures and triggers

#### **EDUCATION:**

##### **Bachelor of Science in Computer Information Systems**

Minor: Computer Science

University of Wisconsin, Superior, WI

**PERSONAL:**                      U.S. Citizen

**REFERENCES:**                Available upon request