

# Jim Canright

- Full Stack Javascript Applications Developer
- Senior Software Engineer

## Capabilities and Technologies

### Core Javascript Ecosystem

- Javascript ES6/2015, Node, npm, JSON, express
- Typescript, eslint, tslint, linux, cli, bash, git, vi(m), ssh
- functional programming, object oriented programming
- TDD, mocha, assert, request
- Agile software development and operations

### Database

- SQL, Relational Database Architecture, ERD/Erwin
- mySql, mariaDb, MS Sql Server, Oracle, MongoDB, Redis
- REST, JSON, YAML, XML

### Client Side

HTML5, CSS, CSS3, Less, jQuery, javascript, DOM, Ajax, AMP.

Responsive Website Design, visual design, user experience / interface design, photoshop.

All of my portfolio sites ([www.canright.net/client-side.hmd](http://www.canright.net/client-side.hmd)) are built with those core tools.

Built (and use) an administration framework to maintain data on a MS Sql Server database. I built this application with core tools (html5, css3, jQuery, javascript) and Slick Grid on the client side and MS IIS, ASP, Sql Server on the server side.

angular: familiar (but not fresh). My deepest dive was to prototype a collaborative document manager with angular 1.

react: re-factoring client side javascript tools (slide-show, scroll, navigation grid, ...) to use react.

I am expert with vanillaJS (HTML5, CSS3, jQuery, javascript, DOM) and familiar with most, but expert with none of the popular frameworks. My experience is with the core tools - the best foundation for any framework.

### Connected Devices / IOT

- Event driven applications, 'real-time' asynch systems
- Digital IO, RS232, Device interfaces, Data collection
- Production controllers, terminal and printer interfaces
- Digital I/O on Raspberry Pi with Node

### Application Domains

- Custom web database business applications
- Intranets, Extranets, Content management systems
- Execution Management Systems
- Enterprise, Manufacturing, Distribution, Logistics Applications
- Responsive Websites, Portfolio Websites

## **Platforms**

- Linux, Unix, Ubuntu 16.04, C, LAMP, apache, php
- .net, c#, ASP, vbscript, jscript, Windows Server, Sql Server, IIS

## **Background**

- Application architecture, design & development
- Requirements & Design Specifications
- Templating, hogan, handlebars, moustache, template strings
- Markdown, document management systems
- Agile, scrum, devops for lean teams
- HTTP, SMTP, FTP, SMTP, DNS, Security, Authentication
- Hands on agile team membership and leadership
- Project / Client account / Business unit management
- Webmaster, Server Administration (Windows Server & Linux)

## **Employment / Project History**

### **Responsive Website Design and Development**

#### **Canright, Portland OR, 2011 - Present**

Developing new (no-CMS) Content Management System with Node / javascript ES6 / linux / mongoDb, mySql, redis and react.

Transform existing content management and hosting platform with (about 100) Websites for Architects accounts to Node / javascript / linux / mySql / react / slick grid stack from legacy microsoft stack.

Custom website design and development with HTML5, CSS3, javascript and jQuery - primarily responsive websites for architects.

### **Websites for Architects**

#### **Canright, Portland OR, 2005 - 2011**

Leading producer of custom websites for architects in US. Established [Websites for Architects \(http://canright.com\)](http://canright.com) business unit with 2-5 website designers, 1-3 software engineers and 1-3 salespeople.

Leverages proprietary content manager oriented to portfolio (architect) websites which is produced with the Extranet Kit to maintain the database resources in an MS Sql Server database and the filesystem. Website Generator produces HTML5, CSS3, jQuery/javascript and other resources from that content. Website generator interprets a custom moustache-like template data substitution language.

Used Flash at first, then HTML5/jQuery to produce slide-shows, presentations, interactive thumbnail grids and other active components.

## **Web Database Applications Developer**

### **Canright Systems, Portland OR, 1995 - 2006**

Led consulting firm with team of 4 - 12 engineers and a few management, administration and sales people. Architected, designed, developed and supported custom web database applications for entrepreneurial 'dot-coms' and established 'brick and mortars'.

Conceived and developed an extranet application development framework. Enables flexible definition and declarative configuration of extranets, intranets or content managers. Used the extranet kit to efficiently deliver administration and maintenance applications for clients.

Clients included 1 800 Reconex, Laika, Pacificorp, On Fulfillment, Pacific Pride, Metrofueling, Truax Harris, Tropitone Furniture, Wacker Siltronix, Weiden & Kennedy, Esco Steel, Scrubmed, Geotrust, Symantic, Maywood Studios, EE Schenck, Zilog, Insight World Wide, Sublimity Insurance, Montgomery & Graham, Soloflex, Wherenext.

All predominantly Microsoft stack: .Net, Sql Server, IIS, c#, asp, XML, Visual Basic, Windows Server, ...

## **Senior Manufacturing Systems Analyst**

### **Canright Systems for JIT, Fourth Shift, Minneapolis, MN**

Led consulting team of 3 - 8 software engineers to architect, develop and support core modules of the commercial JIT MRPII package written in Oracle Forms 3 and C and running on Unix systems.

General architect for all aspects of the JIT package, especially the modules I developed: mps, mrp, crp, sales forecasting, production order management, work in process, execution management, job costing, boms, routings, quotation, production tracking...

Consulted on projects at major client accounts: Columbus McKinnon, Woodward Governor, Boeing Georgia, TRW Space and Engineering Group, TRW Systems Integration Group, Delco Remey, General Dynamics, GE, GTE, Sulzer Intermedics,, Hughes Space and Communications, Litton Laser, Tropitone Furniture, Westland Engineering, Avial.

## **Execution Management Systems**

### **Canright Systems, Portland OR**

Data collection, monitoring and control applications. Consulting and development for production tracking and control. Used a mix of C, Unix, RS232 and Oracle. Interface with sensors, counters and triggers as well as the API for printers and other devices.

Clients included:

- General Mills - Warehouse Management System.
- Stanislaus Food Products - Automated Receiving and Inventory Application.
- Entergy - Automated Data Collection, monitoring and alert Management Application.

## **V.P. Data Collection Products**

### **CIMS, Chicago IL**

Produced and supported data collection and controller products and interfaces marketed in the US and Europe using C, Oracle, and two non-relational databases (ISAM and MDBS database management system).

Developed CID 2000 - a software configuration and development package for a shop floor data collection/controller device.

Interfaces to sensors, counters, switches and triggers. Communicate with data collection terminals, printers and digital i/o devices.

Clients include: Roadway International, Kalkan Foods, Georgia Pacific, Alcan Aluminum, Columbia House.

Designed and developed a Warehouse Management System for Michigan Fruit Canners that interfaced with tracked robot forklifts to command and track pallet moves. WMS controlled barcode tag printers and included receiving through data collection terminals and scales in the receiving bays.

Contributed to the conception and architecture JIT, a new MRPII package.

## **Manufacturing Systems Applications Developer**

### **QMRP, Qantel, Hayward CA**

Key contributor to the (then) very successful commercial MRPII package.

Directly designed, architected and developed core manufacturing modules: Master Production Scheduling, Modular Bills of Material, Models and Options Order Entry, Quotations & Cost Estimating.

Contributed to bulk of the manufacturing modules including the design and development of the core MRP engine.

## **Jim Canright**

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