

CAREER SUMMARY

I'm a professional *full-stack* software architect, engineer, and project-manager (scrum-master) with vast experience across a wide range of business domains and platforms for *on-premise* and *cloud-based* computing solutions on a global (geo-wide) basis. I believe in and practice Agile/Scrum methods and use Agile/Scrum tools, as well as design patterns and test-driven development methods for full stack development. I have excellent communication, people, and technical skills. My resume, work history, and, references speak to my career successes and skills. I have over 20 years of professional experience.

High Level Overview – Bowman Skills		
General Skills	Top Technical Skills for Today's World	
<ul style="list-style-type: none">• Abstraction Modeling• Analysis• Build Engineering• Coding• Configuration Mgmt• Data Modeling• Design• Environment Tuning• Networking• Project Management• Remote Engineering• Testing (TDD, UAT)	<ul style="list-style-type: none">• Angular JS / Angular 2, 3, 4, 5, 6+• Angular IDE• Atlassian Tools (Jira, Confluence, etc.)• AWS (S3 / Lambda / Cloud formation, etc.)• Azure (functions, service bus, queues, etc.)• Azure Storage Explorer• Babble / Webpack• Bootstrap / Foundation / Material Design• CSS / LESS / SASS• Databases (see note below)• GIT / TFS / Subversion / Mercurial• GitHub Desktop• Go• Google Apps• Goto Meeting• JavaScript (ES5 / ES6 / ES7/ES8) / jQuery• JSON• JWT• Kibana	<ul style="list-style-type: none">• LINQ• Linters (JSLint, ESLint, TSLint)• .NET (C#, MVC, WEBAPI2, Unity)• NODE JS / NPM / Yarn• Observables / Promises / Callbacks• OData, Entities- 365• Postman• REST• Riot JS• SaaS / IaaS / PaaS / IoT• SOAP• SPAs• Swagger• Typescript• VS.NET / VSCODE• Vid Conf (WebEx, Goto Meeting, etc.)• Vue• VSTS

All solutions I design employ MVC, MVVM, or MVP design patterns.

The list above does not reflect the decades of expert experience with various DBs such as Oracle, SQL Server, Teradata, MongoDB, Cosmos DB, No SQL, Graph DBs, etc. Also, a detailed technical list showing all technologies is available as an on-demand supplement.

CAREER / PROJECT EXPERIENCE

Vertical Works – Full Stack Architect / Engineer (owner)

1/1996 – present

Responsibilities	Consulting and <i>full stack</i> architecture/engineering (i.e. analysis, design, coding, testing, build management, reporting, team/project management(agile/scrum), app-tuning, troubleshooting and networking for <i>on-premise</i> and <i>global</i> cloud based distributed solutions.
Achievements	As a contractor, I have completed 17 projects at Intel Corp, and have worked with many fortune 500, 1000, and startup companies. I added tremendous value to Intel (eg. saved Intel \$50,000 per month by developing the FPO program). The FPO and Erra-light (electro-migration) projects are flagship accomplishments for me. The FPO project produced the cleanest most up-to-date data store (record of source) for Intel and it was used daily by Intel resources globally. Erra-light was instrumental in the certification of the Pentium chip line. Most recently, I reset / recalibrated Columbia Sportswear by building a high performance agile/scrum global engineering team that delivered high performance fully instrumented micro-services in just 11 weeks to complete their Build 1 effort. I was responsible for component design and team management.
Misc:	Microsoft Azure (Service Bus, Event Grid, Queues, Azure Functions, Data Lake, AzureCLI, GraphAPI, Cosmos DB, Micro-Services, Telemetry, Log Analytics, Virtual Machines), VB, C++, MVC, ATL, MVC), Oracle, C#, .NET, .NET Core, JSON, JavaScript, Angular, RIOT, VUE, Node JS, Gulp, Grunt, Webpack.

Columbia Sportswear – Senior Software Engineer

4/23/2018 – 06/18/2018

Responsibilities	Full stack architecture, design, engineering-oversight, team-building, team-management, and scrum management. In short, help CSC build a team and get it running and tuned to complete B1 efforts.
Achievements	As a senior engineer, team manager and scrum master, I hired engineers, built a global team, and delivered “cookie-cutter” high performance, resilient microservices to CSC in record time; 11 weeks. I crafted Interface Design Docs, collaborated with DevOps and other teams, established best practices (team patterns) and designed and delivered (with my team) micro-services that had full telemetry, log analytics, exception handling, data retention, circuit-breaker, and retry patterns. The micro-services wrapped all calls into and out of Microsoft Dynamics 365 (F&O) and provided transformations to and from CSC canonical JSON and OData Entities (365). I established VSTS dashboards to track full team metrics, and CI/CD build stats in real time, as well as Burnup, Burndown, and Velocity. I tracked all aspects of the 11-week project using VSTS Wiki pages with links to SharePoint artifacts.
Misc:	Microsoft Azure (Service Bus, Event Grid, Queues, Azure Functions, Data Lake, Azure CLI, Graph API, Cosmos DB, Micro-Services, Telemetry, Log Analytics, Virtual Machines), C#, .NET, .NET Core, VSCODE, VS.NET, VSTS, Share Point, JSON, Slack, WebEx, OData, and Windows 10, GIT, GitHub Desktop.

INMAR Corp – Senior Software Engineer

4/1/2017 – 10/23/2017

Responsibilities	Full stack engineering for SPAs and Micro Services. This included technical collaboration, analysis, design, coding, testing, and deploying apps into AWS Cloud (Docker). I used Angular, Node, NPM, Bootstrap, CSS, SASS/LESS, .NET, REST, RIOT JS (ES5 and ES6) WebPack, LiveReload, Grunt, Gulp, JSON, lodash, and literally hundreds of other open source and custom components to design and build browser-based apps which consumed REST APIs.
Achievements	As a senior engineer, designed and coded Angular, and RIOT based SPAs. I collaborated with other top engineers and added value by offering design patterns, SCRUM improvements & analysis improvements to reduce thrash and increase efficiency of process. I resolved bugs (as well as added new features) in legacy apps and helped usher in greenfield apps for increasing company revenue in new markets with time sensitive constraints. “As a cross functional” engineer, I also added value by being part of the DevOps “triage team” which analyzed pre-prod and production issues “daily”.
Misc:	VSCODE, Atlassian Tools (Jira, Confluence, etc.) Slack, Goto Meeting iOS and Windows 10, Angular, RIOT, CSS, SASS, LESS, Webpack, NODE, NPM, Kibana, Swagger, Postman, AWS, S3, Lambda, CloudFront, CouchDB, MS SQL Server, and many other tools.

Armstrong International – Full Stack Consultant

10/2016 – 12/2016

Responsibilities	Designed, coded and tested a greenfield Angular SPA. The SPA replaced a nation-wide legacy Windows app. The SPA allowed engineers across the nation to perform isothermal and adiabatic type load calculations for three types of environments (economy, fixed and area); each with unique inputs for new installations of industrial Air Conditioning units. Was also responsible for technical analysis and design.
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Achievements	This app saved the client money and brought the users new features and put them on the latest modern stack. It also served as a training basis for Armstrong employees by giving them a boiler plate for which to model future greenfield apps; from start to finish.
Misc:	Node JS, Angular (MEAN STACK), Oracle, Maven, Spring, Grunt, Mocha, Chia

Zorts Sports – Full Stack Consultant

05/2016 – 09/2016

Responsibilities	Designed, coded and tested a greenfield <i>high frequency</i> Angular SPA. I was in charge of collaborating with the principles, for technical analysis and design, and for interfacing with a legacy system to pick up real-time data updates via high frequency socket IO.
Achievements	This SPA was based in the sports domain and displayed (in real time with high frequency updates), binary tree “sports brackets game data” for unlimited tournaments, thus allowing ZORTS to stop spending money each month on external services which performed this duty, and subsequently allowed them to gain substantial revenue by having the opportunity to compete with the service they no longer needed to use. The client was able to lease this app to increase revenue.
Misc:	Node JS, Angular, NPM, JSPLUMB (for drawing complex pixel perfect vectors), CSS Reset, VSCODE, Ubuntu.

The full work history (all 9 pages for 20+ years) is available as an on-demand supplement.

EDUCATION

- **Graduated from Alta Loma High School (CA) in 1983**
- **Attended Chaffey College (CA) 1984 – 1985**

MISC

- **Current Focus:**
Angular JS, Java Script, Node JS, RIOT JS, The Mean Stack, .NET, .Net CORE, Azure, AWS, Cloud Solutions (distributed), GoLang, CRM, ERP, Retail Services, Point of Sale, HA, Docker, Kubernetes, Quantum Computing, AI, Machine Learning.
- **Other Training**
Symantec – Novell Networking, Microsoft NT, IBM Networking, UML self-study, and currently studying for MCP & MCSD certifications.

Thank you for your time. ☺

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