Glen R. Goodwin

Laurel, Maryland

https://arei.net

Key Differentiators

- 30+ Year Veteran of Software Engineering.
- 15+ Years of JavaScript/TypeScript experience.
- Expert in Web Frameworks including Vanilla, Web Component, Ember, Angular, React.
- Expert in NodeJS and related technology.
- Architected and Engineered Cloud Solutions in AWS and GCP.
- Led Teams from 2 to 20 people.
- Passionate Open Source author.
- Local Tech Community organizer and mentor.

Experience

Chief Architect / Lead Engineer

ReturnLogic inc, Camp Hill, Pennsylvania

- Architected plan to move ReturnLogic's static AWS EC2 infrastructure to a dynamic EventBridge driven ECS/Fargate based multi-region, multi-tenancy cloud architecture.
- Mentored entire team and individual developers in communication, architecture, engineering best practices, and software quality.
- Lead day to day operations of small platform focused team to deliver platform level systems to make the entire code base more standard, secure, stable, and consistent.
- Championed systems such as unified logging and configuration, common architecture and systems, and enforcement of code and testing standards.

Director of Software Engineering / Lead Engineer

Whitebox Technology, Baltimore, Maryland

- Lead day to day operations of entire Engineering Directorate including growing team from 5 engineers to 20 engineers.
- Designed and implemented entire Engineering department's communication and process and company culture of Software excellence.
- Mentored entire team and individual developers in communication, architecture, engineering best practices, and software quality.
- Served as Lead Engineer for Systems Team, responsible for implementing innovative systems to deliver faster, more efficiently, and at scale
- Served as Lead Experience Engineer fostering and implementing consistent cross product common solutions to better enhance the company brand and the end user experience.
- Designed and delivered technical solutions across the entire company on everything from visualizations to automated conveyance systems.

Founder

The Awesome Engineering Company, Laurel, Maryland

• Started The Awesome Engineering Company to productize personally developed open source solutions.

Distinguished Software Engineer & Chief Architect for CyberSecurity

SAS Institute inc, Ellicott City, Maryland

- Chief Architect for the SAS Cybersecurity product line overseeing technical vision from inception to release.
- Acted as Lead Researcher for new implementations and technology experiments advising senior management on feasibility and direction
- Designed and implemented backend and frontend technologies for the entire product from conception to delivery in multiple languages/frameworks.
- Advised on all aspects of the product including deployment, installation, operations, scaling, testing and documentation.

August 2019 to May 2022

June 2022 to July 2023

July 2018 to August 2019

October 2013 to July 2018

 User Experience Technologist & Principal Software Engineer Vision Systems & Technology Inc., a SAS Company (VSTI), Ellicott City, Maryland Served as UI Team Lead and project Technical Expert actively participating in all aspects of leadership from management to architecture to mentoring. Design and implementation of complex, dynamic and robust user interfaces and complex visualization for customers using NodeJS, JavaScript, HTML, CSS, Groovy, Grails, Servlets, REST, Web Technology concepts. Regularly advised as a Full Stack Engineer on all facets of the technology stack from OS to Build/Configuration to Data services. Lead User Interface design and development across multiple projects. 	October 2008 to October 2013
 User Experience Technologist DDK Technology Group, Chantilly, Virginia Designed and implemented cutting edge User Interfaces in support of federal government technology efforts leveraging HTML, CSS, JavaScript, Java Servlets, JSP, XML, and XSL in an Ajax Methodology. Served as mentor in Web Technology Concepts, Ajax Methodologies, JavaScript, and Cross browser integration efforts. Provided expertise and advice to multiple projects and teams throughout development life cycle to encourage Usability and User-Forward design. 	November 2006 to October 2008
Software Engineer IV Mcdonald Bradley, Herndon, Virginia Matrixx Group, Herndon, Virginia	November 2005 to November 2006
Principal Software Engineer General Dynamics, Arlington, Virginia Software Engineer II Ajilon Consulting, Rockville, Fairfax & Arlington, Virginia	October 2001 to October 2005
Senior Product Engineer	November 1999
Starbase Corporation, Alexandria, Virginia.	to October 2001
Build & Release Engineer	March 1999
Concept Five Technologies, Burlington, Massachusetts.	to November 1999
Computer Services Coordinator/Developer	September 1993 to
Northeastern University School of Law, Boston, Massachusetts.	March 1999
Computer Programmer & Audio/Visual Technician	September 1985 to
Masconomet Regional, Boxford, Massachusetts.	June 1987

Computer Skills

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Web Technology	Full Stack Engineering (OS to Client), Ajax Methodology, Web Technology concepts, Browser Normalization, JavaScript, HTML, CSS, TypeScript, Web Components, Ember, Angular, AngularJS, React, PrototypeJS, JSON, XML, XSLT, HTTP
Javscript/Typescript Technology	NodeJS (since v0.4.x), JavaScript, ECMAScript 2015 to present including ES6, NPM, Express, Fastify, Pino, Winston, Clustering, Child Processes, Worker Threads, ES Classes, Proxy, Reflect, async/await, ES Modules
Java Technology	Java, Groovy, Java Swing, Abstract Windowing Toolkit (AWT), Java 2D, Grails, XML DCD, XML Schema, XSLT, Java Servlets, JSP, JDBC, Java Messaging Service (JMS), RMI, Sockets, Multi-threading, Java WebStart
Cloud Technology	Amazon RDS, Auroa, EC2, ECS, Fargate, MQ, Lambda, S3, SQS, EventBridge; Google Cloud Functions, PubSub, Compute Engine; Serverless framework.
Other Programming	C#, SQL, Perl, Access, Pascal, C, C++, CORBA, BASIC, FORTRAN, COBOL, 80x86/68000/RISC Assembly, Unix Shell Scripting, DOS/NT Scripting
Data Storage	Postgres, MariaDB, ElasticSearch, Logstash, Redis, MySQL, Oracle, Microsoft Access, SQL, ODBC
Development Tools	VSCode, Atom, SublimeText, Symantec Visual Café, Borland JBuilder Enterprise, Eclipse IDE, Microsoft InstallShield, Git, CVS, WinCvs, Subversion
Theoretical & Strategical	Web Technology Concepts, Ajax Methodology, Object Oriented Design, Compiler Design, Network Planning, Infrastructure & Strategy, Operating System Design
Operating Systems	Microsoft Windows (11, 10, 7, Vista, XP, 2000, NT, 9x, ME, 3.x); UNIX/Linix (RedHat, Centos, Mint, etc.), VAX/VMS, Apple Macintosh OS/X, WSL
Networking	TCP/IP, Microsoft Windows Networking, Banyan VINES, IPX, Ethernet
Hardware	PC Compatible, Macintosh, Switches, Routers, Bridges, Cabling
Applications	Apache Web Server, Tomcat, SOLR, ANT; Microsoft Internet Information Server, Access, FrontPage, Outlook, Explorer, Excel, Word, Visio; Canvas; Photoshop, Photostyler; Macromedia Director, Fireworks; Cuacho Resin; Mozilla Firefox
Education	
September 1993 to June 1996	Northeastern University . Boston, Massachusetts. Candidate for Bachelor of Science Degree in English Literature with minors in Computer Science and Education. GPA 3.40 / 4.00
September 2003 to	George Mason University. Fairfax, Virginia. Candidate for Bachelor of

January 2008 Janua

Community

- Standards
 - Initiated the FocusTraversal API proposal currently being incubated by the W3C for inclusion in the W3C HTML Standard.

https://github.com/awesomeeng/FocusTraversalAPI

- Open Source
 - **ZephJS** Framework for authoring Web Components <u>https://github.com/awesomeeng/zephjs</u>
 - AwesomeLog, AwesomeConfig, AwesomeSever NodeJS server libraries. <u>https://github.com/awesomeeng</u>
 - npmbox CLI Utility for packaging NPM packages for offline deployment <u>https://github.com/arei/npmbox</u>
 - node-untappd, functionary, threadful, licenses-extractor <u>https://github.com/arei</u>

Speaker

- Advancing Focus
 JSConf US 2019
 <u>https://github.com/arei/talks/blob/master/AdvancingFocus/details.md</u>
- The Morality of Code
 NodeInteractive North America (November 2016)
 https://github.com/arei/talks/blob/master/MoralityOfCode/details.md
- We Are Hacks and Have Been Stealing Code for Years JSConf Last Call (December 2015) with Todd Gandee https://github.com/arei/talks/blob/master/CreativeBorrowing/details.md
- Writing Code for Other People CharmCityJS
- Introducing ZephJS
 CharmCityJS
 https://github.com/arei/talks/blob/master/IntroZephJS/details.md
- Building Awesome Introducing AwesomeServer, AwesomeConfig, AwesomeLog CharmCityJS https://github.com/arei/talks/blob/master/BuildingAwesome/details.md
- Why are you Awaiting to use Async? CharmCityJS https://github.com/arei/talks/blob/master/AwaitingAsync/details.md
- Outreach
 - Node Web Server Frameworks Working Group (2020 to Present)
 https://github.com/nodejs/web-server-frameworks
 - CharmCityJS Organizer (2019 to Present)
 <u>https://charmcityjs.org</u>
 - NodeSchool Baltimore Organizer (2015 to 2017) <u>https://nodeschool.io/baltimore</u>

Certifications and Memberships

- Certified ScrumMaster
- Member: Association for Computing Machinery Human Computer Interaction

Design Examples

Source code available on GitHub at https://github.com/arei and https://github.com//awesomeeng.

References

Available upon request.