

To Whom it May Concern -

Thank you for considering me for the position of Alderman for District 9 in Waukesha.

My resume is highly-tailored to the technical industry of Software Engineering, so I have included some facts about myself and the reasons why i believe I would be an effective Alderman for the residents of Waukesha.

Here are some brief facts about me:

I am a successful professional Software Engineer with a Master's degree from Carroll University, which I earned in 2013.

I have been successfully engaged and employed in my career since graduating from UW-Green Bay in 1999.

I am a homeowner in district 9 and I also own a property in district 11, which i rent to my mother.

I am married, I have two very young daughters and also a teenage stepson.

I believe I would be an effective Alderman for district 9 for several reasons:

I believe that representative democracy is critically important for the well-being of American citizens;

I am not a member of either national political party;

I am well-informed and open-minded;

I am an excellent listener and an effective decision-maker;

I served in the National Guard and I believe in the United States Constitution;

I believe in the promise and potential of America;

I am fairly well-versed in Servant-Leadership and I believe in its value and effectiveness.

If I am appointed to the position of Alderman for district 9, I intend to:

Attend all meetings as expected;

Communicate honestly and openly with residents of district 9;

Respond to all appropriate questions and concerns of district 9 residents in a timely and professional manner;

Represent the collective interests of district 9 residents to the best of my ability.

Thank you again for considering me to serve in this role.

Please feel free to contact me via email and/or phone, preferably both.

Sincerely,

Jonathan Barnard

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Summary

Software Engineering professional with a Master's degree in Software Engineering and over 20 years of extensive experience developing software for large enterprises, including Fortune 500 companies.

Diverse projects, clients, roles and technologies facilitated the development of an agile, successful, focused and conscientious professional who enjoys challenging problems and learning on-the-fly, and who continually seeks best-practice solutions and opportunities to lead.

Technical Skills

Development: Java, Spring, ReactJS, NodeJS, C#, Python, C++, linux, Windows, embedded

Databases: Postgres, Mongo, SQLServer, RDS

Cloud: AWS

Machine Learning: AWS Rekognition

Devops: Auto-scaling, load balancers, VPC, EC2, RDS, S3, IAM, ami

CI/CD: Jenkins, git, bitbucket

Tools/Other: Docker, Elasticsearch, Kubernetes, Apache NiFi, clustering, Maven, Gradle, npm, yum, Agile, SAFe Agile, Scrum Master, Design Patterns, Jira, Confluence, ADO/VSTS, REST, putty, winSCP

Professional Experience

2017-Present: S & P Global, Inc / RateWatch – Fort Atkinson, WI

Senior Full Stack Software Engineer / Java Architect

Professionally managed and delivered on all aspects of software engineering, including devops, for multiple web-based products utilizing micro-services and multiple databases for the U.S. financial data services industry.

- Took ownership of and corrected several-years' worth of technical debt.
- Recreated build- and deployment- paradigms for Spring Java applications, deploying to AWS with auto-scaling, load-balancers, etc. Created servers, AMI's,
- Took ownership of and successfully led conversion of AWS deployment footprint during corporate sale/transition from one global financial corp. to another global financial corp.
- Technical Lead on a variety of data-centric projects and utilities. Routinely provided needed guidance and direction to other software and technical personnel.
- Significantly improved technical team's communication, approaches and turn-around time by virtue of demonstrating a professional example and taking the lead when necessary.
- Vital to the organization's technical-personnel interview process; performed interviews and provided critical input to enable correct hiring decisions for software personnel.
- Maintained day-to-day and year-over-year progress and momentum with minimal direction or supervision, routinely switching back and forth from one context to another.
- Worked closely with BI personnel to clarify and document BI logic and procedures.
- Created meaningful and usable diagrams to document pre-existing complexity.
- Engaged in significant self-directed Pluralsight training on AWS, Kubernetes, Docker, Agile etc.
- Gained improved understanding of enterprise-level networking to which I had not previously been exposed from seasoned network-admin types.
- Mentored mid-level developers, provided guidance to Business Analysts.

- Technologies include: AWS, EC2, RDS, Java, Linux, MongoDB, Postgres, NodeJS, ReactJS, Elasticsearch, Jenkins, Jira, Confluence, Trello, putty, WinSCP, python, Power 8, MSSQL

2016: Specialist Resources Global, Inc. – Nashville, TN

Java Architect

Drove efforts of multiple engineering teams developing a multi-language (polyglot) SaaS platform utilizing micro-services and multiple databases for the U.S. health-care insurance industry.

- Critical to the successful engagement of my teams with our client.
- Acted as primary communication liaison between our client's engineering teams and client's product teams (business-analysts). Also acted as primary liaison between my engineering/product management teams and client's engineering/product management teams.
- Provided technical leadership and communication leadership to technical personnel, Business Analysts, and product-management personnel.
- Guided and drove architectural/technical decisions across our client's multiple organizational boundaries.
- Achieved implementation of common/shared agile development processes, ensuring fast feedback and response times between on-shore and off-shore stakeholders, and significantly improving communication and collective understanding of issues and expectations.
- Provided significant and critical input to client's decision-makers – at both technical and big-picture levels of understanding.
- Provided 24-hour availability for both on-shore client and off-shore engineering and management teams.
- Extensive travel to client sites in L.A. and N.C. Travelled to India to provide training to engineering and product management teams.
- Succeeded at diplomatic fire-fighting under occasionally hostile circumstances.
- Provided daily clarification and communication to technical personnel and management personnel.
- Mentored senior technical personnel. Mentored mid-level product management personnel.
- Routinely exceeded the requirements and expectations for the role.
- Engaged in frequent meetings with decision-makers inhabiting roles such as Directors and Vice-Presidents.
- Java, C#, Entity Framework, Drools, ElasticSearch, AWS, Ansible, SQL, MongoDB, VirtualBox, Docker, Concourse, Spock, bitbucket, git, TFS.

2014-2015: FIS Global –Menomonee Falls, WI

Senior Software Engineer Contractor

- Full-lifecycle software engineering on award-winning products catering to Enterprise-level data- and operations- management for large financial-services companies.
- Developed and deployed web services, including semi-automated batch processing.
- Developed tools for cryptography and database static-binding customization.
- Created clear and meaningful developer documentation for varied topics, including local- and multi-server deployment of a modular product stack and Spring Batch (JSR352) implementation. These guides and documentation saved numerous developer-hours.
- Mentored others on a daily basis; provided valuable and responsive troubleshooting of unfamiliar applications in alien contexts.
- Excelled in a challenging and dynamic environment.
- Consistently provided informed guidance and insight to decision makers regarding task complexity, targets/estimation and management of development processes. Championed improvements in utilization of communication tools (Jira and wiki).

- Daily interaction and problem-resolution with counterparts in Bangalore, India.
- Technologies include Java, JSP, J2EE, SDLC, SOAP, SQL, Websphere, Spring Batch, aspect-oriented programming (AOP), injection, Infinispan caching, Eclipse, Apache, Ant, Maven, DB2, Oracle, Jenkins, Cygwin.

2012-2013: JDA Software Group (Red Prairie) –Waukesha, WI

Privately held, global leader in warehouse logistics and enterprise solutions.

Senior Software Engineer Contractor

- Responsible for all phases of software engineering. Produced high-quality deliverables in a dynamic and collaborative environment utilizing an Agile process framework. Consistently exceeded expectations for both quality and performance. Continually sought additional responsibilities and tasks.
- Architecture-level refactoring and performance analysis of industry leading warehouse management system.
- Created tools, documentation and implemented improvements and enhancements to web-service architecture as part of a product shift to RESTful web services as a step toward SaaS and the enablement of a Cloud-service architecture.
- As part of the Architecture team, contributed to longer-term decisions regarding code-quality, application performance and developer guidance and support.
- Implemented numerous utilities, resulting in significant and measurable improvements in developer performance and code-quality across multiple products. Improved visibility of quality metrics for management.
- Investigated and resolved deeply-embedded performance and reliability issues centered on the use of C code and third-party modules (memory leaks, overwrites, double-frees).
- Mentored entry level developers with regard to development of quality deliverables, Agile process utilization, best practices and performance considerations.
- Technologies included Java, JSP, SOAP, SDLC, SQL, C, JavaScript, Spring, Hibernate, Jackson, ExtJS, C#, Restful web services, proprietary coding language, PMD, Findbugs.

2011-2011: United Heartland –New Berlin, WI

Software Development Contractor

- Developed business-critical C++/SQLServer windows application to replace C++/FoxPro application for workers compensation insurance company. C++, SQL, C#, Windows Forms, web services.

2009-2010: CareFusion –Middleton, WI

Software Development and Testing Contractor

- Developed installation procedures, applications, modules and scripts for a leading supplier of electroencephalograph machines and software used in medical facilities. Frequent testing, debugging. Installshield, Boost test suite, SQL, C#, .Net.

2006 to 2008: Self Employed –Waukesha, WI

- Focused on renovation of personal real-estate. Studied investment/financial fields.
- Provided website consulting and development for small business of acquaintance.

1999 to 2005: Quad Tech International - Sussex, WI

Manufacturer of register, cutoff, and color controls for web offset printing presses.

Software Engineer

Developed advanced, multi-tier, multithreaded applications for a color control system on web-offset printing presses utilizing Visual Studio, C++, .NET, Java, C#, embedded C and SQLServer.

- As part of a large team, converted existing application to an object-oriented paradigm. Increased quality, maintainability, and flexibility of product.

- Implemented abstract/concrete factory and singleton-based data-access interfaces, improving performance of database interactions.
- Pioneered increased interaction with users. Championed standard testing and deployment practices resulting in improved development-cycle and response times.
- Advocated the adoption of unit, integration and regression tests to the software development process, leading to increased software quality. Advocated evolution of development processes, including Iterative and Agile methodologies.
- Provided effective and timely support for field personnel and customers leading to greater customer satisfaction, reduced installation costs and increased sales.
- Developed numerous feature enhancements, leading to higher user satisfaction. Extensive resolution of existing defects, reducing installation and maintenance costs.
- Developed automatic database/file purging application consisting of windows services and multiple stored procedures. Project enabled reduction of upgrade time and costs. Created auto-update and version control web and windows services using Java and C#.
- Developed embedded, real-time, event-driven, messaging/control software for motion controllers of step-motors and CCD cameras using TCP/IP, RS-232 and RS-485. Developed recovery algorithms, event/exception-handlers, thread synchronization, and communication interface software. Performed packet analysis, bitwise operations. Use of oscilloscope.
- Created physical test-beds and test suite for motors. Executed performance testing of motors and hardware. Performed comprehensive analysis of real-time control messages and embedded code. Project led to hardware upgrades resulting in performance improvements.
- Developed web reporting applications using Agile development processes (XP, pair programming) and utilizing Java, Apache Tomcat, XML, html, C# and SQL Server. Application provided users with performance graphs and metrics for print runs.
- Developed messaging middleware for multiple third-party interfaces and communication protocols (TCP/IP, Serial, Arcnet) including development in Germany and Belgium.
- Acted as Team Lead on several projects. Mentored entry-level developers. Provided classroom instruction to Testing personnel, Support personnel and Managers.
- Led study groups in Project Management, Design Patterns and Testing. Frequently led status meetings and code reviews.
- Performed extensive database maintenance and enhancement using SQL Server including design, normalization, stored procedures, views and triggers.

Education

- Masters of Software Engineering – Carroll University–Waukesha, WI (2013)
- BS Computer Science, University of Wisconsin – Green Bay, WI
- Self-study in AWS, Docker, C#, .NET, Java, Design Patterns, Agile process/project management, REST, Enterprise Architecture, XpressNG, Websphere, WCF, WPF, WinForms, Javascript, UML, PHP, CSS, RUP, Software Testing.

Other

- Self-Educating, Highly Resourceful team player.
- Passionate and Enthusiastic Problem-solver.
- Outstanding Analytical and Communication skills.
- American Mensa member since 2006.
- Wisconsin Army National Guard 1997 – 2003.
- Master-Level BrainBench certifications: C++, OOD, Problem Solving and Software Testing.
- Additional technologies and tools utilized include: Eclipse, Visual Studio, Borland, LINQ to SQL, and source code repository tools including Tortoise, SVN, TFS, Git and CVS.