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| Gerald E. Bennett, PhD  Austin, Texas · 5125211674  hireme@drgeb.com · <http://www.linkedin.com/in/drgeb>  Solutions Architect | Technical Architect | DevOps | Java Engineer  On a mission to help companies with solving technological problems;  improve my craft and the art of programming and to share this joy with others |

# Experience

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| January 2022 – MAY 2023Sr. Enterprise Architect, NinjaOne LLC.  * Led the successful refactoring effort of a large monolithic SAAS application into microservices architecture. * Collaborated with cross-functional teams to design and implement microservices-based solutions, improving system performance, security and reducing dependencies. * Implemented Docker containers and Kubernetes orchestration to optimize deployment and scaling of microservices. * Developed RESTful APIs and designed data models to support seamless integration between microservices. * Implemented unit tests and participated in code reviews to ensure code quality and maintainable codebase. * Improved application monitoring and logging, enhancing observability and error handling. Implemented structured logging framework for AWS CloudWatch, NewRelic, Sentry and SplunkCloud using Mapped Diagnostic Context. * Worked closely with stakeholders to gather requirements, prioritize features, and deliver solutions that met business objectives. * Helped migrate continuous integration and continuous deployment (CI/CD) pipelines from TeamCity to CircleCI. * Created various POC's to determine technical direction: containerized builds using Earthly; containerization using Cloud Native Buildpacks for frontend react applications, nginx, backend SpringBoot and python applications. |
| October 2018 – JANUARY 2022Sr. Enterprise Architect/Solutions Architect, Texas Mutual Workforce  * Established identity management strategy by researching leading industry solutions by creating demos, evaluations, and negotiating with management and team leads and rolling out solutions to production * Established single-sign-on strategy using PKCE flows and illustrated using Angular. * Evaluated build-vs-buy proposal for automation end-of-year payroll. This effort included a working prototype using the following technologies: React, Typescript and Python Lambdas, AWS Textract, CloudFront, API Gateway * Participated as a member of the enterprise architect team to evaluate the selection of the cloud vendors and transition to cloud. Evaluated AWS, Azure, and Pivotal Cloud Foundry. * Established DevOps and CI/CD strategy and tool evaluation selection for artifact repository system: Nexus vs JFrog Artifactory; code quality code security tool: SonarQube, VeraCode; Build Tools: Gradle, Apache Maven; Deployment Tools: AWS CDK, Terraform, Kubernetes, Waypoint, AWS-Cli * Build containerization conversion automation cli tool to allow apps to run locally inside Docker Desktop legacy J2EE App and Spring-Boot. * Conducted work sessions to improve developers coding, testing and work flow practices for topics like Kubernetes, Docker, PostMan, Git and Selenium. * Explored Caching strategies for caching mechanisms with spring-boot security such as Redis |
| June 2018 – October 2018Solution Architect / Senior Java Developer, Technology Solutions Partners  * Architected the integration Apache Activiti processing engine into NIC backend application to provide asynchronous workflow capabilities which is a crucial component of the document and request processing backend engine. |
| October 2017 – aPRIL 2018Solution Architect / Senior Java Developer, Thermofisher Scientific - Austin, Texas  * Responsible for delivering and maintaining CI/CD workflow of various applications. * Developed Groovy DSL framework to automatically generate and maintain over 150 Jenkins Jobs and pipelines * Assisted QA Team design and architect Cucumber automated data driven, JUnit, Selenium test framework * Implemented Karate BDD Rest based automated test suite for different microservices * Completed code review and built microservices, using spring boot docker and Apache Solr backend technologies |
| May 2017 – August 2017Senior Java Consultant, Kforce Inc. San Antonio, Texas / USAA - San Antonio Texas  * Developed front-end Apache Wicket modules for multi-factor authentication and authorization * Created both functional and integration Selenium test harness for the multi-factor authentication and authorization * Integrated application with backend REST based services |
| October 2016 – January 2017Senior Java Oracle Retail Consultant, Lillii RNB, Inc. - Atlanta Georgia – Metra/BNSF Chicago, Illinois Scrutinized Java systems current architecture and compared different WebServices architectures to determine the best path for integration of TruRating and LAW applications.   * Constructed a framework for the installation of Micros XStore utilizing Ansible roles, playbooks, and Ansible Vault * Enhanced security * Reduced installation time * Increased flexibility in deployment topologies through the automation framework * Resolved 25+ bugs while performing an upgrade of the ORPOS solutions in Metra’s Stores, meeting a strict deadline while delivering codes, introducing build, and testing and upgrading processes * Mentored team members on the Oracle Retail Store Applications |
| 2011 – 2016Consultant, Volunteer advisor  * Independent Java Developer/Consultant * Performed automation of multiple applications * Conducted automation of Web management tasks by creating JavaFX, Selenium, and WebDriver App * Created Java/JPA/Java receipt entry application for Ginger Aruba Corporation * Supplied virtual training modules of Oracle Retail Store Applications for Oracle Corporation |
| 2010 – 2011Architect/Manager, Cognizant Corporation Austin, Texas/ Lowes Corp Monterrey, Mexico  * Constructed integration solutions for the improvement of Oracle Retail applications for the Lowe’s Corporation International team. Travelled more than 75% of the time. * Spearheaded a team to ensure reliability and stability in Lowe’s retail stores in Monterrey, Mexico, as well as fashioning a procedure for deciphering production software issues * Created and executed the procedures needed to perform production repairs and support, upgrade, version control, and testing strategies for Cognizant Lowe’s Production Support Team while managing the off-site team in India and on-site Monterrey Mexico |
| 2003 – 2010Performance Architect, (2008 – 2010), Oracle Corporation - Austin, Texas  * Designed and architected an automated performance test framework/benchmark for the Oracle Retail Point-of-Sale Oracle Retail Enterprise Java/J2EE applications * Originated automated load performance testing * Designed HTTP/HTML tests utilized to load test the Oracle BackOffice application * Created, executed and finely tuned performance bottlenecks for the specific ORPOS topology and applications   Senior Development Engineer/Consultant (2004 – 2008)  Provided on-site solutions, deployment, mentoring for 360Commerce store and enterprise retail applications for 6 different clients. Provided consultation on resource configuration, assimilation, and performance improvement matters of production environments. Served as the architectural and technical liaison for Sears USA and as a member of the sales team for Sears Canada proof of concept phase.  Senior Java Application Developer (2003 – 2004)  Conducted error resolution, code synchronization repairing, and closing complex software amendment requests.   * Accomplished performance and reliability enhancements for customer services work for 4 different clients |
| 2003Consultant/Senior Software Engineer, Vieo, Inc. - Austin, Texas Originated white and black box JUnit test cases utilized to analyze VIEO’s Adaptive Application Infrastructure Management Client/Server, executing integration and system level Java test cases to test the security, server provisioning, and object relational mapping integrity of Vieo’s “On-Demand” computing business domain java code. |
| 2002Senior Software Engineer, Tonic Software Inc. - Austin, Texas Created, executed, and integrated a JavaScript/Jython test case framework into a preexisting Jython automation test tool allowing for test case modularization and the development of test case drivers.   * Designed test schemes, test drivers, and test cases in Java, JavaScript, and Jython to analyze Tonic’s Web Application Management Server and Scripting API, involving the testing of Tonic’s job types * Developed and implemented test plans and wrote UNIX test scripts * Conducted code compliance, code coverage, and performance testing |
| 1999 – 2001Senior Software Engineer, ClearCommerce Corporation, Austin, Texas  * Designed and implemented first generation client side Java messaging API for the 4.x ClearCommerce enterprise payment engine. * Converted the API interface to an XML based interface to automatically generate C++ and Java client implementation code of the API * Architected and developed a test framework to facilitate testing and express test cases in any programming language * Took initiative to mentor team to ensure a deeper understanding of the ClearCommerce products |
| 1997 – 1991Developer/system administrator, Silicon Resources - Austin, Texas Develop tools for hardware Engineers/Consultants; Performs Sys Admin tasks and maintain HP/UX AIX and Linux systems |

# Education

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| December 1995Doctor of Philosophy Chemical Engineering, The University of Texas - Austin, TX |
| September 1990Master of Science in Chemical Engineering, Massachusetts Institute of Technology – Cambridge, MA |
| jUNE 1990Bachelor of Science in Chemical Engineering, Massachusetts Institute of Technology – Cambridge, MA |

# Skills

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| * Technical Expertise | Platforms | Gradle, Maven, Ansible, Docker, VirtualBox, Git, Ant, |
| Languages & Frameworks | Java, Shell and DOS Scripting, Python, JavaScript, TypeScript, JSON/YAML/XML Spring Boot, Spring Cloud, Apache Activiti, Oracle Retail Store |
| Tools & IDE | Postman, Eclipse, VS Code, Emacs, Spacemacs, Vi |
| * Experienced | Container Platforms | AWS, Azure, Terraform, Kubernetes, Amazon CDK |
| Application Servers | Websphere, Weblogic, JBoss |
| Identity Providers | Okta, Cognito, Ping Identity, KeyCloak |
| Architecture | MVC, J2EE, Spring-Boot Microservices Architecture |
| Devops & Infrastructure Tools | Jenkins, Oracle Micros XStore, HP LoadRunner, Apache Kafka & Solr, VMWare, Hyper-V, Apache Camel, WebSphere MQ, FioranoMQ |
| Vagrant, Packer, Ansible, Chef DSL, Terraform |
| Databases | Oracle 11g, IBM Db2, H2, MySQL, DynamoDB |
| Other | Adaptability, Versatility, Creativity, Performance Testing, Problem Solving and Resolution, Mentoring |
| * Familiar | Languages | SQL, Groovy DSL, Perl, Go, NodeJS, Angular, React |
| Databases/Caches | MongoDB, Redis, DynamoDB |