

Summary

I develop enterprise Java and Spring web applications and am passionate about the work I engage in. That passion has driven varied interests that I have incorporated into my professional portfolio ranging from the core Amazon Web Services to a healthy dose of DevOps tools and practices. Goal-oriented with a focus on the entire software development cycle. I live in Linux and I also like maps, mathematics, and other programming languages!

Experience

Software Developer

April 2014 - Aug 2018

BNL Consulting, LLC.

- Designed, developed, or contributed to seven (7) client projects.
- Designed and implemented microservices to automate internal workflow components and processes for client's existing commercial SaaS offering resulting in a geometric increase in customer capacity.
- Technical lead for internal DevOps R&D project that containerized our commercial SaaS application and subsequent deployment using Infrastructure-as-Code, configuration management, container orchestration, and public/private cloud platforms that was later included in our product offering.
- Core developer for two (2) year client project that entailed refactoring existing application from .NET to Java, implementing RESTful web services, improving ETL and analytics processes, expansive search functionality, and data modeling.
- Contributed to the development of business intelligence / analytics web applications utilizing NodeJS, AngularJS, and d3.js.
- Authored blog posts [Cloud-First Microservices: AWS API Gateway and Lambda in Action](#) and [Visualizing Clusters with ArcGIS for Flex](#).

Education

Credit Hours towards

Aug 2012 - Dec 2013

Masters in Computer Science

University of Tennessee at Chattanooga

Post-Baccalaureate in Computer Science

July 2011 - May 2012

University of Tennessee at Chattanooga

- Graduate Teaching Assistant for two (2) semesters.
- Graduate Research Assistant for two (2) semesters.

Bachelor of Arts in Geography

Aug 2007 - May 2011

University of Tennessee at Knoxville

- Award recipient at the Exhibition of Undergraduate Research and Creative Achievement (EURÉCA).
- Tutor at the UTK Math Tutorial Center.

Skills

Web Technologies

NodeJS, ES2015, Babel, Yarn, Webpack, ReactJS, CSS Preprocessors, JavaScript Transpilers

Java

JDK 12, Java Persistence API (JPA), Hibernate, JUnit, Maven, Gradle, Spring Framework, Spring Boot, Spring Security, Spring Web MVC, Spring Data, Spring Batch, Micronaut, Lombok, Immutables, Quartz

Databases & Datastores

Oracle + PL/SQL, PostgreSQL + PL/pgSQL, MySQL, Redis, MongoDB, DynamoDB, Lucene/Solr

Amazon Web Services

Lambda, API Gateway, Virtual Private Cloud (VPC), Elastic Compute Cloud (EC2), Simple Storage Service (S3), Elastic Block Store (EBS), Identity Access Management (IAM), Elastic Load Balancer (ELB), Route 53, Relational Database Service (RDS), DynamoDB, AWS CLI

DevOps

Jenkins, Docker, Ansible, Packer, Terraform, Consul, Nomad

Software Engineering

Test-Driven Development (TDD), 12-Factor Applications, Domain-Driven Design, Enterprise Integration Patterns (EIP), Inversion of Control (IoC), Aspect-Oriented Programming (AOP), Object-Relational Mapping (ORM), Continuous Integration / Continuous Deployment (CI/CD), Configuration Management, Container Orchestration, Service Discovery

Computer Science

Algorithms and Datastructures, Programming Methodology, Systems Programming, Theory of Programming Languages, Theory of Computation, Computer Architecture, Computer Networks, Parallel Algorithms, Cloud Computing, Mobile Computing, Systems Software

Mathematics

Computational Geometry, Automata Theory, Set Theory, Combinatorics, Graph Theory, Probability, Differential Equations, Calculus, Linear Algebra, Statistics, Spatial Statistics, Machine Learning

Certifications

- AWS Certified Developer - Associate
- Adobe Certified Expert Flex 4.5