BARRETT OTTE

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SUMMARY

Languages:	Java, SQL, TypeScript, Python, C#, JavaScript, ColdFusion, Groovy, RPGLE, Shell
Backend:	Spring Boot, Jersey, Apache Velocity, Node.js, JBPM, Drools
Frontend:	Vue.js, Angular, jQuery, Sass, HTML/CSS
Databases:	Postgres, Db2 for IBM i, Microsoft SQL Server, MongoDB, Apache Accumulo
Data Engineering:	Apache Kafka, Apache NiFi, Grafana, Prometheus, Hadoop, ElasticSearch
DevOps/Cloud:	Docker, Kubernetes, Ansible, Nginx, Jenkins, Gitlab, Nexus, AWS, Azure AD
Certifications:	CompTIA Security+, AWS Certified Cloud Practitioner, AWS Cloud Developer Associate
Security Clearance:	Active security clearance (2022 - present)

WORK EXPERIENCE

Software Engineer - Enlighten   **Jan 2022 - Present**

- Developed and maintained backend service used in distributed system for big data platform.
- Implemented operational metrics system with scalable and high performant queries.
- Implemented diagonal (multi-hop) cluster data syncing for clusters indirectly connected.
- Implemented nestable hierarchical data model and related queries/functionality.
- Primary skills: Java, Postgres, Vue.js, Apache Kafka, Apache Nifi, Grafana, and Prometheus.
- Exposure: Hadoop, ElasticSearch, Apache Accumulo, Hashicorp Consul, Redis, Kubernetes, and AWS.

Software Developer Analyst - Goodville Mutual Casualty Company   **Jun 2018 - Jan 2022**

- Implemented microservices and modern technologies to support modernization efforts.
- Implemented migration from legacy claims system on IBM i to modernized Spring Boot and Angular system.
- Developed and maintained IBM i system with RPGLE, DB2 for IBM i, Control Language, and DDS.
- Primary skills: Java, Angular, ColdFusion, Drools, Apache FOP, XSLT, and Microsoft SQL Server.
- Exposure: C#, Node.js, JBPM, AWS, SalesForce, Kubernetes, Jenkins, and SOAP microservices.

EDUCATION

Computer Science B.S. with Cybersecurity Minor - University of Maryland Global Campus   **2018**

- Algorithm Analysis, Data Structures, Concurrent Programming, Programming Language Design
- Computer Architecture, Software Engineering, Network Security, Ethical Hacking, Digital Forensics

Computer Science A.S. - Harford Community College   **2015**

- Assembly(x86), C, C++, Java, VB.NET, Networking, Multivariable Calculus, Discrete Mathematics

PERSONAL PROJECTS & MISC

Interests:	History of computing, cybersecurity, computer architecture, digital electronics
Self-Taught:	C, Go, Assembly (x86, ARM, RISC-V), Verilog, AMD Vivado, Autodesk Fusion, KiCad

Enki OS - https://github.com/barrettotte/enki-os

- A small 32-bit x86 kernel made to study how operating systems function.
- Implemented bootloader, FAT-16, Lib C, ELF loader, processes, userland, and more.

ARM Assembly QR Code - https://github.com/barrettotte/qr-asm

- A challenge to generate a QR code from scratch with only ARM assembly.
- Implemented Reed-Solomon error correction with polynomial arithmetic and light Galois theory.

DSL-5250 - https://github.com/barrettotte/DSL-5250

- A domain specific language written in Groovy designed for headless automation of a 5250 emulator.
- Written as a proof of concept for easy screen automation/scraping of legacy systems during COVID-19.