# BARRETT OTTE

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## SUMMARY

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|---|---|
| **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, SQL, Java, 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

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

- A 32-bit x86 kernel made to learn operating system internals.
- 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.

**5250 Emulator Automation** - 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.