Brandon Geise

Senior Software Engineer / Senior Data Engineer
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Professional Summary

Senior Software and Data Engineer with 15+ years of experience designing, building, and operating large-scale distributed systems and data platforms. Deep expertise in streaming data ingestion, search infrastructure, and cloud-native architectures on AWS. Proven individual contributor with strong ownership of system design, implementation, deployment, and production operations across security, analytics, and data-intensive domains.

Technical Skills

Languages: Java, Python, Scala, Go, TypeScript, SQL
Cloud & Infrastructure: AWS, Kubernetes, Docker, Terraform, Pulumi, AWS CDK
Data & Streaming: Apache Spark, Kafka, Airflow, Hadoop, Hive, Presto
Databases: PostgreSQL/PostGIS, Redshift, Teradata, MySQL, Oracle, SQL Server, DB2
Search & Platforms: Elasticsearch, REST APIs, CI/CD, Linux, Git

Professional Experience

CEO & Principal Software Engineer — Bryllyant (Jul 2022 – Present)

- Designed and implemented cloud-native data platforms supporting analytics, compliance, and real-time processing workloads
- Built and operated batch and streaming pipelines using Airflow and Kafka for multi-source data ingestion
- Architected a Slack-based eDiscovery platform enabling compliant message capture, indexing, and retrieval
- Owned system architecture, infrastructure-as-code, deployment pipelines, and production operations
- Served as hands-on technical lead and primary contributor across backend services and data systems

Senior Principal Software Engineer — Secureworks (Sep 2019 – Jul 2022)

- Led design and implementation of high-volume ingestion and indexing pipelines powering Elasticsearch-based search platforms
- Owned architecture and operational performance of large-scale Elasticsearch clusters supporting security analytics workloads
- Designed and maintained backend search APIs enabling scalable, low-latency access to indexed data

- Performed capacity planning, performance tuning, and reliability improvements in production AWS environments
- Collaborated with product, platform, and data teams to deliver business-critical backend systems

Lead Backend Engineer — X-Mode Social (Jul 2017 – Sep 2019)
- Engineered high-throughput ingestion pipelines for near–real-time data processing at scale
- Developed analytics tools and configurable reporting with hierarchical filters
- Designed and implemented a domain-specific language (DSL) for Spark pipelines to simplify partner export logic
- Contributed to backend architecture decisions and scalability initiatives

Big Data Developer — Lowe's Home Improvement (Oct 2016 – Jul 2017)
- Built and maintained data pipelines using Spark, Hive, and Sqoop to ingest, transform, and serve large datasets
- Modeled raw datasets into curated layers for reporting and analytics teams
- Acted as subject matter expert for critical data domains

Research Data Manager — Geisinger Health System (Feb 2014 – Oct 2016)
- Developed phenotype models and machine learning pipelines from multi-source clinical data
- Designed ETL workflows to centralize and normalize data across disparate systems
- Built distributed pipelines to load and process over 4 billion genomic records
- Implemented NLP techniques for phenotype extraction from unstructured clinical text
- Mentored junior analysts and advised researchers on data sourcing and study design

Earlier Roles — Geisinger Health System (2009 – 2014)
Business Intelligence Administrator; Data Analyst / Programmer; Technical Analyst
- Supported hospital IT systems, reporting platforms, ETL pipelines, and analytics environments
- Built SQL, SAS, Java, and .NET solutions to automate reporting and data workflows
- Led cross-functional efforts for clinical system rollouts and operational improvements

Education
B.S. in Information Science & Technology — Pennsylvania State University (May 2007)