

BRANDON S. EILERS

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PROFESSIONAL SUMMARY

Senior Software Engineer, Technical Leader, and Software Architect with 19+ years of experience designing, building, and modernizing high-availability enterprise applications, including 8+ years architecting and developing mission-critical banking systems at JPMorgan Chase. Proven track record leading complex data platform migrations, decoupling legacy database architectures, and driving engineering best practices across the full software development lifecycle. Skilled at mentoring engineers, partnering with cross-functional stakeholders, and delivering secure, scalable solutions in regulated environments.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C#, SQL/PL-SQL, C++, C, GraphQL, Bash/Shell, PHP, HTML, CSS

Architecture & Practices: Software Architecture, Microservices, Distributed Systems, System Design, Event-Driven Architecture, Agile/Scrum

Cloud & DevOps: AWS, Kubernetes, Docker, Amazon RDS, AWS Secrets Manager, Helm, Skaffold, Jenkins CI/CD, Apache Airflow, Grafana, JFrog Artifactory

Frameworks & APIs: RESTful APIs, Spring Boot, React, Node.js, Kafka, .NET Core, ASP.NET Razor Pages/MVC, Spring JDBC, Stripe API, LINQ, DocuSign / Docuseal eSignature Integration, Maven, Ant

Data & Databases: PostgreSQL, MS SQL Server, Oracle Database 12c/19c, Dremio, Liquibase, Oracle SQL Tuning Advisor, Oracle Exadata, Materialized Views, Database Links

Tools & Platforms: Git, Linux/Unix (Red Hat, AIX, CentOS, Solaris), Jira, Confluence, Bitbucket, Postman, SonarQube, JaCoCo, Kerberos Authentication

PROFESSIONAL EXPERIENCE

JPMorgan Chase & Co. | Houston, TX

June 2018 - Present

Senior Software Engineer / Senior Associate

- Served as the primary subject-matter expert for a mission-critical banking application within Wholesale Credit Risk, authoring policy documentation and visual process-flow diagrams that improved cross-team understanding of complex approval logic for Product and Policy stakeholders.
- Led the migration of application batch processing from the legacy, licensed Oracle BPM platform to open-source Apache Airflow running on Kubernetes - evaluating and prototyping multiple orchestration platforms before architecting and building the selected solution (**72 DAGs, 1,100+ tasks, and 11 custom operators**) while directing teammates on testing and coordinating with SRE on deployment for a zero-disruption cutover. Delivered a **67% reduction in batch processing runtime** and fully decommissioned Oracle BPM, eliminating its licensing costs and dedicated server infrastructure.
- Contributed full-stack development for a new Hedge Funds initiative, building backend services alongside React/Node.js front-end screens, as well as extending an existing core React codebase to deliver new UI functionality.
- Led the technical delivery of a high-impact initiative migrating client reference data sourcing from a legacy Oracle database to a centralized data platform - re-platforming **43 materialized views** to on-demand direct queries via Dremio

and eliminating a single point of failure on legacy database uptime - while supervising two engineers and coordinating with two partner teams on architecture and integration.

- Led the migration of the application's core database from dedicated Oracle server instances to a shared, Kerberos-secured, cloud-based Oracle database service, achieving a **zero-issue production cutover** recognized as one of the team's cleanest deployments in recent years; subsequently decommissioned the legacy infrastructure for measurable cost savings and a reduced database footprint.
- Spearheaded adoption of Liquibase for automated, version-controlled database schema management, building a complete baseline of production application objects and deploying through the team's Kubernetes platform - improving change auditability, compliance, and deployment velocity.
- Led the migration of non-production environments to next-generation, regulatory-compliant data centers ahead of schedule, including server repaving, adoption of new managed microservices, and migration/decommissioning of legacy network storage volumes.
- Analyzed Kubernetes resource utilization via Grafana telemetry and right-sized memory allocation for the Airflow platform, cutting reserved memory by **60% (120Gi to 48Gi)** and reducing infrastructure costs for the team and broader organization.
- Closed out a Data Retention and Destruction compliance control that had been outstanding for over a year, completing full remediation within a single sprint.
- Led the decommissioning of a legacy intermediary messaging dependency by architecting direct system-to-system integration, reducing latency, improving message throughput, and implementing reconciliation processes to preserve data integrity.
- Led the migration of an access-management service to a new identity platform and the decommissioning of a legacy database dependency for a client data service, provisioning new authentication infrastructure across lower and production environments.
- Led the technical implementation of an updated organizational hierarchy and configurable task-routing logic to support a major corporate reorganization, updating core database packages and validating changes through targeted queries, batch testing, and dashboard verification - ensuring zero disruption to existing account-mapping and auto-decision rules.
- Streamlined the team's build and deployment pipeline using Kubernetes, Helm, and Bitbucket/Git, including resolving a critical CI/CD blocker by updating a legacy build image for dual JDK8/JDK11 compatibility - unblocking two concurrent modernization initiatives and reducing deployment time.
- Mentored and guided junior engineers through code reviews, dependency upgrades, and security remediation; led knowledge-transfer and documentation efforts that enabled a new Site Reliability Engineering team to independently support production operations, contributing to a reported **94% efficiency gain** for the SRE team.
- Used Oracle's SQL Tuning Advisor to diagnose and resolve database performance bottlenecks, reducing one critical query's runtime from over 30 minutes to under a minute (a **98% improvement**) and established a repeatable tuning practice for the team.

Falcon Systems, Inc. | Remote

April 2019 - Present

Independent Contractor, Full-Stack .NET Developer (Part-Time)

- Serve as a part-time independent contractor for Falcon Systems, Inc., architecting and building full-stack .NET/C# applications on AWS for Golden Considerations / Special Considerations, a pre-need funeral insurance and burial trust provider, in addition to full-time employment.
- Architected and delivered a successor trust burial agreement/contract platform integrating open-source Docuseal for e-signature and Stripe API for payment collection - with a webhook automatically updating contract payment status (confirmed deposit, NSF, disputed, cancelled) in real time - along with dashboards and statistics for contract, payment,

enroller, and member monitoring; continue to enhance the platform with new features and improvements as business needs evolve.

- Leading the migration of the client's legacy on-premises database to Amazon RDS for SQL Server as the foundation for a new administrative platform (UI and backend) centralizing management of agents, funeral home partners, licensing, deals, commissions, payments, and customers.
- Built a pre-need funeral insurance application that calculated the appropriate insurance product from a customer questionnaire and integrated with DocuSign, using a .NET eSignature library and template-based document generation, for an embedded electronic document signing flow.

Academy Sports + Outdoors | Katy, TX

June 2013 - June 2018

Senior Software Developer / Software Developer

- Served as domain and subject-matter expert for multiple enterprise-level retail applications, serving as primary developer for enhancements and defect resolution on Oracle Store Inventory Management (SIM), a Java EE store inventory application, and Oracle Allocations.
- Led development of custom mobile applications and microservices consuming SIM server APIs to replace a legacy mobile device UI (Wavelink), while managing Development, Test, UAT, and Production environments running WebLogic Application Server.
- Provided architectural input for new and existing applications, partnering with multiple IT teams to define enhancement requirements, design solutions, and coordinate testing across systems; directed continuous build and deployment practices for multiple teams.
- Installed and configured Jenkins CI, building continuous build and deployment pipelines across all environments, and developed a custom Ant-based build process for the SIM application.
- Restructured legacy SIM custom and Oracle base code into modern Eclipse Java projects and established standardized SVN source-control practices adopted team-wide.
- Designed, developed, and implemented a custom Apache Solr search index for all SIM item data, building a custom indexer to handle the application's full data volume and deliver faster item lookup.
- Developed a concurrency fix for Oracle SIM stock count processing that was adopted directly into Oracle's product.
- Standardized SIM reporting formats within the MicroStrategy reporting tool, improving consistency across business reports.
- Provided backend technical support for Oracle Retail Price Management (RPM), a retail pricing management application, resolving data-integrity issues within its Oracle database.
- Developed a secure application using GPG encryption to protect summary reports downloaded from PayPal.

US Dataworks, Inc. | Sugar Land, TX

March 2007 - June 2013

Software Application Developer / Implementation Specialist / C++ Developer

- Designed, developed, and maintained Java EE extensions for Clearingworks, an enterprise payment processing platform, managing Production and DR environments across WebSphere, Geronimo, Oracle, and PostgreSQL.
- Implemented the Clearingworks SaaS offering, including PCI/SAS70-compliant FTPS file transfer and automated disaster recovery (log shipping, file mirroring, backups) across two hosting sites.
- Designed and developed a C++ performance-metrics database and web-based reporting interface used by management to improve customer billing and delivery estimates.

SHSU Department of Residence Life | Huntsville, TX

Aug 2004 - Dec 2006

Web Developer / Computer Systems Technician

- Supported 100+ networked computers across 75+ applications and developed the department website and interactive JavaScript virtual tours while completing a B.S. in Computer Science.

EDUCATION

Sam Houston State University, Huntsville, TX

Bachelor of Science in Computer Science, 2006
