

Brandon Jamar Randle

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EDUCATION

Louisiana State University - Roger Hadfield Honors College | Baton Rouge, LA

B.S. Computer Science, Data Science & Analytics | Expected May 2027

B.S. Mathematics, Computational Mathematics | Expected May 2028

Certifications: AWS Certified Solutions Architect - Associate (July 2026)

Relevant Coursework: Applied Deep Learning, Competitive / Collaborative Programming, Operating Systems

EXPERIENCE

RoyOMartin | Information Systems Intern | Alexandria, Louisiana | June 2026 - Present

- Drove MQTT pipeline from approved SOW to production, coordinating security, architecture and deployment reviews. Landed edge computer-vision inspection stream in SQL Server; modeled downtime with gaps-and-islands logic.
- Modeled MQTT anomaly processing in Databricks/PySpark: Spark window functions and gaps-and-islands logic resessionized 32.4M synthetic alerts into 868 fault events.
- Built C#/.NET MQTTnet worker with TLS, retry/reconnect and parameterized SQL Server writes; connected directly to internal edge broker, removing planned third-party layer.
- Built C#/.NET MCP server for natural-language helpdesk management, resolving vague ticket descriptions through subject, status and text filters.
- Replaced base64 image transfer with Entra-bound upload pipeline, reducing per-image context from over 1M tokens (~\$1.17/MB) to constant URL.

LSU College of Engineering | Junior Data Engineer | Baton Rouge, Louisiana | November 2025 - June 2026

- Built SQL Server ELT from legacy mainframe records to reporting warehouse; T-SQL window functions deduplicated and standardized records for course-planning and advising decisions.
- Designed Kimball star-schema warehouse powering Tableau dashboards to identify anomalous course failure rates

LSU College of Engineering | Undergraduate Researcher | Baton Rouge, Louisiana | January 2026 - June 2026

- Built LLM API-edit evaluation harness using Tree-sitter to score per-call adoption of renamed functions, return types and parameters; reported per-model reliability and Pass@k generalization.

Data Acquisition Lead | LSU Formula SAE | Baton Rouge, Louisiana | December 2025 - Present

- Built PostgreSQL team-portal backend with 10+ tables, row-level security and versioned migration deployment through GitHub Actions and Supabase CLI.

Homeland Security | Emergency Management Intern | Hahnville, Louisiana | May 2025 - August 2025

- Built Python ETL over 24 years of flood reports; produced pivot tables, charts and maps identifying high-risk zones for road-closure and pump planning.
- Presented flood risk analysis to director and senior coordinators to inform \$3M East Bank Waterworks Project

PROJECTS

Tiger Racing Telemetry Pipeline | Python, TimescaleDB, FastAPI, Power BI

- Built warehouse and Power BI dashboard from Formula SAE AiM logs; identified high-RPM oil-pressure dips under cornering, cooling limits and dead channels.
- Ran full CI suite against live TimescaleDB; content-hash ingestion made reruns idempotent, with per-file error isolation keeping bad sessions from failing batch.

Interview Platform (STARfolio · Scroll · Recall Seed) | TypeScript, React, C#/.NET 10, SQLite, Electron

- Electron/React/TypeScript client performs live technical interviews using the MoshiRag full-duplex model
- TypeScript IDE/document endpoint spawner where remote edits above your viewport never move your screen, over an O(log n) treap property-tested at over 99% detection in a targeted 20-mutant sweep
- C#/.NET 10 MCP server exposes IDE seeding and STAR banking over Obsidian vault or SQLite, behind one store seam

Peekbar | C++23, Win32

- Keeps minimized browser tabs glanceable in Windows taskbar gap; cut median activation from 539ms to 95ms after an ETW profiler traced delay to a UI Automation tree-walk

SKILLS

Programming: Python (PySpark, PyTorch, Pandas, FastAPI), SQL (PL/SQL, T-SQL), C++, Java, C#, TypeScript, JavaScript

Databases & Warehousing: Databricks, SQL Server, MongoDB, PostgreSQL, Kimball star schema, ETL/ELT

Tools & Cloud: AWS (RDS, S3), Azure, Docker, GitHub Actions, Claude Code, Tableau, Power BI

Languages: English (Native), Spanish (Professional Working Fluency), Mandarin (Limited Working Fluency)