

Quentin Bordelon

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EDUCATION

Louisiana State University

Baton Rouge, LA

Bachelor of Science in Computer Science and Physics

Expected May 2028

- Relevant Coursework: Algorithms, Data Structures, Linear Algebra, Probability & Statistics, Systems Programming, Computer Organization and Design

EXPERIENCE

Implementation Consultant Intern

May 2026 – August 2026

FAST Enterprises

Springfield, IL

- Cut SQL query latency by >90% across 100M+ row taxpayer tables in return, mailing, and account subsystems via indexing, query restructuring, and execution-plan analysis.
- Rewrote 20+ legacy VB.NET services into high-performance C#, improving maintainability and execution speed across enterprise tax modules.
- Resolved 20+ production defects during a live GenTax rollout for the Illinois Department of Revenue, including one critical Core GenTax issue, while configuring and deploying state-specific regulatory workflows.

PROJECTS

Bird Research | *Python, NumPy, SciPy*

March 2026 – May 2026

- Built an API ingestion layer with rate limiting, pagination, and chunked streaming writes for a 600k+ record dataset, reducing memory footprint via on-disk persistence.
- Classified 600k+ geospatial points as urban/non-urban from WorldPop raster data, deriving a latitude-adjusted area correction (spherical trigonometry) to normalize pixel-level density globally.
- Applied statistical modeling, back-testing, and numerical stability checks to a 600k observation dataset, isolating urbanization effects by taxon while controlling for citizen-science sampling bias.
- Designed a modular acquisition, geospatial-processing, and statistical-analysis pipeline in Python, decoupling stages via intermediate Parquet/JSON artifacts for independent testing and reruns.

PrintIt | *Java, Apache Maven, JavaFX*

December 2025 – August 2026

- Architected a JavaFX desktop app that cut label-printing time by 50% for an active retail business, replacing manual filesystem searches with a searchable, categorized SQLite-backed label catalog.
- Designed a cross-platform CI/CD release pipeline in GitHub Actions, removing error-prone, OS-dependent manual packaging steps.

LEADERSHIP & INVOLVEMENT

Webmaster – Google Developers Student Club

August 2025 – Present

Louisiana State University

Baton Rouge, LA

- Built and maintained full-stack web applications for a 100+ member community, automating event check-ins and member tracking across 20+ technical workshops and events.
- Co-organized campus-wide hackathons with organizations like SASE, leading event logistics, venue scheduling, and developer marketing for 100+ student attendees.

TECHNICAL SKILLS

Languages: C++, Python, Java, Rust, C#, Go, JavaScript/TypeScript, SQL (SQL Server)

Systems & Tools: Linux, Git, Docker, Bash, PowerShell, Tmux, zsh

Frameworks & Libraries: React, Node.js, Svelte, JavaFX, Three.js, Firebase, PyTorch, NumPy, SciPy, Matplotlib, PyQt6

Quantitative Methods & Algorithms: Algorithms & Data Structures, Probability & Statistics, Linear Algebra