

Justin Borders

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TECHNICAL SKILLS

- **Integration & Healthcare Tech:** Mirth Connect, HL7 Data Pipelines, Workflow Automation
- **Languages:** Python, JavaScript (Rhino), SQL, C#
- **AI & LLM Integration:** Prompt Engineering, LLM Extraction (Claude/AWS Bedrock), Structured Outputs
- **Databases & Cloud:** MySQL, Redis, AWS Infrastructure (ECS Fargate, S3)

EXPERIENCES

Medaxion – (Remote)

October 2023 – Current

Integration Engineer

- Optimized and validated healthcare data pipelines in Mirth Connect across diverse formats including HL7, XML, and CSV over SFTP and TCP delivery methods, implementing and testing custom integration logic to ensure accurate, interoperable, and HIPAA-compliant exchange of sensitive medical information across multiple platforms and protocols.
- Served as lead integration engineer on PDF Extract, driving production deployment for the company's first real-world AI integrations. Translated surgical scheduling workflows into channel configurations, LLM extraction prompts, and processing logic across multiple customers on AWS (ECS Fargate, Aurora MySQL, S3) with Claude via AWS Bedrock.
- Designed and implemented a scalable, highly-available AWS ElastiCache cluster access layer solution using Jedis (Rhino JavaScript) for Mirth Connect, replacing a single-master sentinel instance. This increased message processing scalability by over 50x and improved data access latency by 30% while achieving 99.99% high availability through automatic cluster failover.

Brock Solutions – (Hybrid) Irving, TX

May 2022 – September 2023

Software Integration Engineer (Client: British American Tobacco)

- **Warehouse Control System Server Upgrade** (Roles: Technical Lead, QA, Go-Live Support) - Led the research, development, and documentation of the primary Warehouse Control System host server that was formerly a blackbox. Additionally, I developed a Crane Simulator for comprehensive QA testing of the server rebuild..
- **Manufacturing Execution System Scanner Uplift** (Roles: Engineer, QA, Go-Live Support) - Converted a local C# mobile scanner application into a secure internal website that could be accessed by a suite of devices. This involved utilizing a C# and SQL backend and JavaScript logic on the front end.
- **High Tech Operations Team** (Roles: Engineer, Go-Live Support) - Contributed to the development of new features and bug fixes for BAT's Manufacturing Execution System, which managed and tracked manufacturing processes across all 10 manufacturing and supply locations.

UT Southwestern Medical Center – (In-Office) Dallas, TX

May 2019 - August 2019

Research Intern

- Worked in coordination with a team lead for Infrastructure Development to perform translation of existing R code for a patient database to Python.
- Contributed to the Dallas Heart Study by surveying over 6,000 participants and performing core research/administrative preparation.

EDUCATION

B.S. of Computer Science

Graduated April 2022

The University of Alabama at Birmingham (UAB)

ADDITIONAL PROJECT EXPERIENCE

- (PHP, JavaScript): Designed and developed a modern and user-friendly website for The Melendez Real Estate Group LLC. Collaborated closely with the marketing team to understand client needs and translate them into an engaging platform. Link: <https://www.TheMelendezRealEstateGroup.com>