

Micah Lyle

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Software Engineer passionate about solving intricate problems and skillfully mastering complex technical challenges. Creative thinker innovating digital tools, building blocks, and abstractions that segue into powerful, connected, and elegant systems. Expert at solving multifaceted, robust technical difficulties while maintaining a friendly, responsive, and business-oriented approach to projects. **Understands both the full technical scope and business-side of obstacles with a knack for big-picture problem solving.**

Skills

- **Technical Decision Making**
- Software Team Management
- **Software Project and Scope Estimation**
- Relationship Building
- **Code Review**
- Third-Party Software and Library Evaluation
- **Software Architecture**
- **Software Consulting**
- **Python (top 1% knowledge-base)**
- **Django**
- Celery
- **Python Testing, Pytest, and Related**
- SQL
- PostgreSQL
- Redis
- Javascript
- HTML and CSS
- Frontend Javascript Frameworks

Professional Experience

CHIEF TECHNOLOGY OFFICER | SALES SOURCE | JUNE 2021 – PRESENT

SalesSource is a cutting-edge eCommerce product research tool helping dropshippers grow their eCommerce businesses with winning products. Researchers also analyze large-scale Shopify-related store, product, or app data.

- **Scaled 10-100x scraping breadth**, frequency, and data collection on Shopify stores and products
- **Worked with CEO to improve algorithm** for store revenue estimation.
- **Refactored subscription and billing flow to be more flexible, testable, and robust**, fixing a number of deeply flawed bugs in the process.
- **Implemented standard best practices into a messy codebase, stabilized system and processes, and trained junior engineers** to follow suit.
- Fixed numerous bugs and refactored and improved major store and product scan features resulting in **40% decreased churn rate**.
- **Scaled search to 50M+ Shopify products** using a tight budget and timeline.
- **Carefully indexed and fine-tuned PostgreSQL database to handle 50 million + Shopify products with filtering, ordering, and more.**
- Devised keystone solutions to a better algorithm for finding existing Shopify stores across the internet resulting in 20x more Shopify stores in our database.

CHIEF SOFTWARE ARCHITECT + ENGINEER | AGENT'S CORNER | APRIL 2019 – PRESENT

Agent's Corner is a revolutionary cross platform app that matches Real Estate agents with people interested in selling their homes.

- Architected and built the majority of the backend from scratch (2-year process).
- Backend consists of 75,000+ lines of code including over 2,000 tests covering 93%+ of the codebase (and 99-100% of the critical user-facing logic).
- Crafted and produced key step of GVG Capital LLC's (sister company) + Agent's Corner lead pipeline aggregating data from a variety of internal and external platforms, providing quality checks, and therefore contributing hundreds of thousands of dollars of monthly revenue to both companies. The pipeline handles 50,000 + leads per-month.
- Architected and built a number of integrations with other internal and external systems. Responsible for major technical backend integration decisions. Designed, built, and heavily tested integration and synchronization layers between Agent's Corner and other internal systems.
- Trained multiple engineers to properly maintain and grow the platform as the company scales.

TECHNOLOGY CONSULTANT | OCTOBER 2018 - PRESENT

Palmetto Park (*Sabal*) | Real Estate Company

- Built a Django app called *Sabal* enabling company to migrate critical processes away from legacy microservices + MongoDB and into a modern, centralized application robustly configured and tested, running the latest Django, Celery, and DRF.
- Added functionality into *Sabal* to sync data from their legacy MongoDB cluster into a PostgreSQL database. Rewrote and restructured several of company's key codified business operations into *Sabal*.
- Fixed alerting system (no crashes, did not introduce load), and cleaned-up older MongoDB records.
- Introduced a new Slack app/bot, *Matchmaker*, which was considerably more robust, functional, and powerful than the previous, barely functional Slack app/bot.
- *Matchmaker* closed about \$100k in revenue in deals and speed improvement was responsible for at least 25% increase in company yield.
- Leveraged *Sabal*'s robust connections to legacy databases, systems, and third-party systems I built to both migrate, consolidate, and enhance scattered business processes and logic, and add testability and observability to the entire stack.
- Added important observability and error monitoring integrations and code into *Sabal* leading to real-time notifications of problems allowing for swift turnaround times for fixes.
- Built a new CRM in a week that tied together old CRM, old database, and third-party CRM a simple way.
- Built a simple Django template frontend to allow Agents to interact with it allowing Palmetto Park to significantly reduce their security footprint and risk.

Various Projects

- Provided engineering estimate for international start-up, site design ideas, and assisted hiring engineers.
- Parallelized and significantly improved a critical Celery workflow resulting in 10x speedup of a key algorithm for the company while simultaneously rewriting a more robust algorithm.
- Successfully advised Django developers on complex problem fixing scheduling code to run far into the future.
- Analyzed architecture and code of an application and advised stakeholder via a detailed report of strengths and weaknesses.

FULL STACK ARCHITECT AND ENGINEER, DJANGO SPECIALIST | FREELANCE WORK | OCTOBER 2018 - PRESENT

Jaspr Health (formerly EBPI) | Mental Health, Suicide Prevention, & Behavior Management Apps |

- Helped architect and build major foundational backend technology.
- Solved numerous database and query optimization problems, reducing certain export and report generation speeds by 98% or more.
- Refactored parts of a large Django codebase while introducing a queueing-based system for background work. Added numerous features and tests to improve platform.
- Identified and eliminated hidden bugs plaguing various systems for months to years.
- Sped-up the large test suite by a factor of 2x-5x by introducing some lazy loading and lazy evaluation optimizations.
- Wrote and reviewed code to ensure HIPAA compliance.
- Completed security audits and reviews.

Joyride – Slack App / Bot supercharging team experiences through interactive technology

- Solo developer of entire system (frontend, backend + Slack integrations).
- First version completed within 6 weeks.
- Acquired first long-term Joyride customer within 1 month.
- Joyride sat as the #2 featured app/bot for health and wellness in the entire Slack App Store.
- Backend built with Django, supporting Slack authentication with Add to Slack and Sign In With Slack.
- Built a recurring billing system (Stripe integrated) and an API for the Vue.js frontend to populate the private team pages.
- Built the frontend in Vue.js using professional designs.

The Beach at Sharkey's | Owned by Jim Nichols, legendary ex-professional beach volleyball player

- One of my largest projects and most significant challenges.
- Led to hundreds of thousands of dollars in revenue for an otherwise small operation.
- Single-handedly built complex backend and two separate frontends within 5 weeks on a tight deadline.
- Backend built with Django, including advanced scheduling logic, an API for the frontends, and PayPal integration for billing.

- Successfully designed scheduler to handle over 400 teams per season across 30-ish leagues with 12 courts.

Accolades and Leadership

UPWORK

- Rated top 1% in my field
- Top-rated Plus
- 100% job success score
- Expert-vetted (passed two software assessments + interview)
- Freelanced approximately 2,000 hours

ORGANIZER (PROGRAM TEAM) | 2019 DJANGOCON.US CONFERENCE | SAN DIEGO, CALIFORNIA

- Chosen for leadership position as one of the Program Team organizers.
- Reviewed over 200 submissions for speakers and offered feedback.
- Team member choosing speakers and tutorials for the conference.

NOTABLE ACHIEVEMENTS

- Researcher – Citris Social Apps Lab (UC Berkeley)
- Mentor – Pioneers in Engineering Robotics (Regional Tournaments)
- High School
 - Salutatorian
 - GPA: 4.72 weighted/4.0 unweighted
 - National AP Scholar
 - Yale Book Club Award
 - Most Outstanding Male Student Award
- Math and Computer Science Instructor

Education

DOUBLE MAJOR; B.A. COMPUTER SCIENCE + B.A. APPLIED MATHEMATICS | MAY 2017 | UNIVERSITY OF CALIFORNIA, BERKELEY

- GPA: 3.502

REGENTS AND CHANCELLOR'S SCHOLARSHIP ASSOCIATION | MEMBER | UNIVERSITY OF CALIFORNIA, BERKELEY

- Top 1% of accepted applicants
- Entered with 4.72 GPA (weighted)