KALYANAM DEWRI

Product and systems engineer shipping AI applications, data infrastructure, and autonomous systems tooling

Tempe, AZ | kalyanampriyam@gmail.com | portfolio available on request

Education

Arizona State University Tempe, AZ
B.S. Computer Science, Minor in Mathematics | Barrett Honors | GPA 3.92/4.00 Dec 2026
Programs: Fulton Undergraduate Research Initiative (FURI), Grand Challenges Scholars Program
Coursework: Algorithms, Probability, Operating Systems, Computer Networks, Distributed Systems, Databases, Machine Learning, Autonomous Systems

Experience

Paradox Scottsdale, AZ
Software Engineering Intern, AI Product & Conversational Systems May 2025 - Aug 2025
- Built eval-driven recruiter and candidate assistant flows for screening, scheduling, and knowledge retrieval supporting 11k+ weekly interactions; improved grounded resolution from 83% to 95% while reducing median latency 34%.
- Designed Python/TypeScript orchestration for tool calling, retrieval, caching, and routing across model backends, lowering inference spend 38% and increasing self-service completion 19%.

GoDaddy Tempe, AZ
Software Engineering Intern, Platform & Commerce Jan 2025 - May 2025
- Shipped Go/TypeScript APIs and event-driven workflows for site onboarding, payments, and domain setup, cutting average time-to-publish 29% across SMB launch flows.
- Built React operator tooling, feature flags, and contract/integration tests for weekly releases, lifting funnel conversion 8% with zero Sev-1 regressions.

Blue Yonder Scottsdale, AZ
Software Engineering Intern, Data Platform & Systems May 2024 - Aug 2024
- Optimized Spark/Arrow-based feature-generation and columnar transformation jobs for demand-forecasting pipelines, improving end-to-end throughput 2.1x and reducing compute cost 27% across 140 TB/month.
- Built Kafka/Flink quality-monitoring and SLO dashboards for inventory events processing 170M records/day, reducing incident triage time from 41 minutes to 12 minutes.

Battery ELectric & Intelligent Vehicle (BELIV) Lab Mesa, AZ
Undergraduate Researcher Aug 2024 - Present
- Built a ROS2/C++ replay and simulation-validation harness for connected-vehicle perception/planning regressions, shrinking scenario reproduction from 97 minutes to 11 minutes across 28k nightly tests.
- Trained PyTorch consistency models for camera, lidar, and V2X streams to detect packet loss and sensor desync before training, saving roughly 15 GPU-days/week.

Selected Projects

Canyon Exchange C++20, Linux, lock-free queues, io_uring, perf/eBPF
- Built a price-time-priority matching engine and zero-copy market-data feed, sustaining 8.7M msgs/s at 87 us p99 after hugepages, core pinning, and profiling-driven tuning.

RoadTwin C++/Python, ROS2, PyTorch, CUDA
- Built a roadside-plus-vehicle perception stack for urban intersections; improved small-object recall 11 points at 20 Hz and generated a replayable simulation set for planner regression testing.

Honors & Open Source

- ICPC North America Championship qualifier with ACM at ASU; 2nd / 380 teams, sunhacks 2025.
- 22 merged PRs across DuckDB, Ray, ROS 2, and OpenTelemetry; Barrett Honors thesis in trustworthy autonomy.

Skills

Languages: C++, Python, Rust, Go, TypeScript, SQL
Frameworks / Systems: Linux, ROS2, PyTorch, Spark, Kafka, Flink, React, OpenTelemetry, Docker, Kubernetes, PostgreSQL, GitHub Actions