

COLTON SHEPARD

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SUMMARY

Senior infrastructure and data engineer for complex distributed systems. Built and owned petabyte-scale databases, Meta-scale load testing, and 10+ TB/day data pipelines. Comfortable in customer-facing roles.

SKILLS

Technologies

- Languages: Python, Bash, SQL
- Databases: PostgreSQL, BigQuery
- AI: Claude Code, Gemini, agentic workflows, custom skill/subagent development
- Pipelines: Airflow, Fivetran, WAL decoding
- Cloud: GCP, Azure, AWS, Terraform, Ansible

Buzzword Compliance

- Automation, alerting, full stack, load testing, microservices, observability
- Cloud-native, enterprise support, high availability, platform engineering
- Data pipelines, distributed databases, change data capture, streaming, emergent features
- Massive-scale data, agentic AI, context engineering, RAG, MCP

EMPLOYMENT

Production Engineer, E5

March 2025 - July 2026

Meta

- Run large-scale production load tests to determine hardware needs
- Build and maintain load testing tooling and integrations
- Drive onboarding initiatives to load testing and capacity tools
- Total projected hardware savings in excess of 20,000 servers
- Integrated health check tooling with load testing features
- Drove large refactor to allow dynamic targeting, allowing fully automated tests
- Heavily AI-assisted development workflow, extensive use of custom skills/subagents

Senior Software Engineer

May 2021 - Feb 2025

TRM Labs

- Designed, built, scaled, and ran data pipelines and infrastructure
- Distributed Postgres (Citus) serving layer with over 1PB of disk
- Airflow-orchestrated BigQuery pipeline with 10+ TB of daily updates
- Operational tooling, alerting, systems design, training, and maintenance
- Served data for regulatory compliance and forensic investigations

Solutions Engineer / Software Engineer II

May 2018 - May 2021

Microsoft (formerly Citus Data)

- Helped customers build and deploy 500TB+ PostgreSQL clusters
- Performed low-downtime cross-architecture multi-TB migrations
- Built migration, monitoring, update, and analysis tools
- Product management, account management, community outreach roles
- Conference talks including PostgresOpen (slides and video available on request)

Applications Engineer

June 2016 - May 2018

Alarm.com (formerly iControl Networks)

- Production firmware deployments for 1M+ ADT Pulse systems and 5M+ security devices
- Built monitoring, update, analysis, and reporting tooling
- Analyzed stability, responsiveness, and business intelligence metrics across the fleet

EARLIER EXPERIENCE

- **Accellion** — Support Engineer (March 2015 - June 2016)
- **Blackboard** (via Sutherland Global Services) — Technical Support (June 2008 - March 2015)