

# COLTON SHEPARD

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## SUMMARY

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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

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### 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

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### Meta

*March 2025 - July 2026*

#### Production Engineer, E5

- Ran load tests on >100K production servers to determine hardware needs
- Total projected hardware savings in excess of 20,000 servers
- Drove large refactor to allow dynamic targeting, allowing fully automated tests
- Integrated health check tooling with load testing features
- Built and maintained load testing tooling and integrations
- Drove onboarding initiatives to load testing and capacity tools
- Heavily AI-assisted development workflow, extensive use of custom skills/subagents

### TRM Labs

*May 2021 - Feb 2025*

#### Senior Software Engineer

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

### Microsoft (formerly Citus Data)

*May 2018 - May 2021*

#### Solutions Engineer / Software Engineer II

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

### Alarm.com (formerly iControl Networks)

*June 2016 - May 2018*

#### Applications Engineer

- 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

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- **Accellion** — Support Engineer
- **Blackboard** (via Sutherland Global Services) — Technical Support