Brian R. Bagdasarian

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Technical Experience

Currently In Production

Platform & Infrastructure	Data	Languages
Infrastructure: Pulumi, AWS	Database: MongoDB Atlas	TypeScript: Pulumi, Frontend
Orchestration: Kubernetes	Compute: Databricks	Rust: Backend
Delivery: Helm, Kustomize, FluxCD, Garden, GitHub Actions	Streaming: Redpanda	RPC: gRPC
Observability: OpenTelemetry, Grafana, Mimir, Loki, Tempo	Storage: S3 + Delta Lake	Scala: Apache Spark
Additional Services: Temporal, Tailscale		SQL: Spark, Databricks SQL

Priority Research

nix, Cilium, Istio, Apache Arrow

Past Experience

Java (8), PostgreSQL, MySQL, SQL Server, Apache Kafka, NATS, Snowflake, Microsoft Azure, DigitalOcean, Google Cloud Platform

Open Source

ahappypie/sol

Kubernetes reference architecture using CNCF tools

ahappypie/marschat

API for sending messages based on Earth-Mars light delay

ahappypie/unica

Generate unique identifiers at high scale. Based on Twitter's Snowflake project

ahappypie/spotter

Experiments with Spark, Kafka, Avro, Schema Registry, Hudi and others

Education

New York University	Graduated Fall 2016
Gallatin School of Individualized Study	BA, Politics & Data Science
Courant Institute of Mathematics	Joint Minor, Computer Science & Mathematics

Experience

Cosm – Lead Platform Engineer
September 2022 – Present

Helping design, build and maintain a multi-language monorepo for fully remote development
Designed infrastructure-as-code framework for granular control over cloud resources
Proving immutable infrastructure concepts for legacy on-premise systems

Cosm – Senior Data Engineer
September 2021 – September 2022

Designed data systems for powering next generation immersive experiences

Nativo Inc. – Big Data Engineer
January 2020 – September 2021

Responsible for new streaming data architecture for 5+ TB of new data per day using transactional data lake
Assisted in managing data warehouse of 150+ TB

Regent, L.P. – Data Engineer
July 2018 – December 2019

Restored companies to profitability with cloud native technologies
Engineered data platform for shared services
Responsible for maintenance of data warehouse
Planned and executed retail platform migration across hundreds of physical locations

FIJI Water & The Wonderful Company - Data Engineer
April 2017 – May 2018 (full-time)
Summer 2015 & 2016 (intern)

Architected and developed ETL pipeline and data warehouse
Led self-service analytics, including training courses
Consulted on reporting and contract management systems

BlueLine Grid - Software Engineer
February 2014 - September 2014

Supported iOS app deployment, developed backend systems with Akka