

Kev Silver

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EXPERIENCE

Principal Data Engineer

Diamond Foundry, Inc

April 2021 - Present

- Developed an automated quality control system which has saved over \$2 million to date, completely replacing manual product inspections.
- Achieved 99.5% availability for the organization's highest priority mission-critical software using Kubernetes and Elastic stack to manage and monitor deployments.
- Engineered the organization's reporting data warehouse, unifying petabytes of data from dozens of separate systems into one location with one query syntax.
- Built low-code tooling for R&D teams to easily access petabyte-scale BigQuery datasets in a uniform, scalable way.
- Established meaningful SLOs for critical software with key stakeholders, providing clear metrics and reports which communicate quality-of-service to users without technical knowledge.
- Spearheaded the implementation of Looker as the organization's centralized analytics and reporting platform.
- Migrated a critical on-prem MySQL database to Google Cloud with zero downtime.
- Engaged with C-suite executives using concise, understandable language to discuss and pitch complex technical projects.

Database Administrator II

South Carolina Department of Education

Dec 2016 - Dec 2020

- Redesigned the agency's data collection pipelines, providing up to 8x faster feedback to stakeholders thanks to automation and efficiency improvements.
- Engineered a data masking tool to fulfill dozens of complex data security and anonymization requirements.
- Developed a SQL generation framework to streamline writing, maintenance, and testing of critical data pipeline components, saving hundreds of developer hours per year across multiple teams.
- Open-sourced a suite of data mapping and anonymization tools in collaboration with the federal Department of Education.

Software Developer Intern

USC Research Computing

Aug 2016 - Dec 2016

- Designed high-performance point cloud rendering algorithms to display very large datasets on consumer-grade virtual reality hardware.

EDUCATION

Computer Information Systems, B.S.

University of South Carolina, Columbia

Graduated 2016

SKILLS

Cloud Vendors: Google Cloud Platform, AWS

Data Technologies: MySQL, BigQuery, Apache Kafka, Redis, MongoDB, Snowflake

Analytics: Looker, Grafana, Power BI

DevOps: Kubernetes, Elastic Stack, Jenkins, Docker, Git, Apache Airflow

Languages: Python, JavaScript, SQL, C#, HTML/CSS, COBOL