

Software Engineer and Data Platform Developer with experience building cloud automation, analytics platforms, APIs, and operational data solutions. Skilled in Python, SQL, Terraform, GitHub Actions, Power BI, Databricks, and Kubernetes with a focus on automation, reliability, and scalable data workflows. Combines enterprise leadership experience at General Motors with active independent engineering projects involving cloud infrastructure, CI/CD, Infrastructure as Code, and dashboard engineering.

Languages & Scripting: Python, SQL

Tools & Platforms: Git, Jira, ServiceNow, Linux, Selenium, Postman, DataStage, Cognos, Tableau

Cloud & DevOps: Terraform, GitHub Actions, Docker, Kubernetes, Cloudflare, CI/CD

Concepts: REST APIs, Infrastructure as Code, Agile, Data Analytics

Data & Analytics: Power BI, Azure Databricks, PostgreSQL, Supabase, ETL Pipelines, Dashboard Development

Spoken Languages: Conversational Mandarin

Independent Software & Data Engineering Projects

Jan 2026 – Present

Founder / Independent Engineer — 100DayDash & Cloud Automation Projects

- Building and publicly documenting a 100-day engineering initiative focused on developing production-style dashboards, APIs, and cloud-native data platforms using real-world datasets.
- Developed a Cloudflare governance and remediation platform using Python, Terraform, GitHub Actions, and the Cloudflare API to audit domain security posture and optionally auto-remediate configuration drift.
- Implemented Infrastructure-as-Code workflows with Terraform and CI/CD pipelines using GitHub Actions, including automated validation, scheduled audits, and secure secret handling.
- Implemented modern repository governance and DevSecOps practices including automated validation pipelines, Dependabot, CodeQL, secret scanning, and branch protection workflows.
- Built validation and testing workflows using pytest, linting, automated CI checks, and repository governance practices to improve deployment reliability and code quality.
- Designed portfolio and dashboard platforms hosted through GitHub Pages and Cloudflare, including automated deployments, custom domain management, HTTPS, DNS, and observability tooling.
- Designing reusable data engineering workflows involving APIs, ETL pipelines, medallion-style architectures, Supabase, PostgreSQL, and dashboard integrations.
- Developing public technical documentation and engineering blogs at 100daydash.blog covering platform engineering, cloud infrastructure, automation, analytics, and software development practices.
- Developing dashboards and visualization solutions using Power BI, Looker Studio, Astro, Hugo, and Python-based visualization frameworks.

General Motors - Software Engineer (Operations & Reliability)

Feb 2021 – Dec 2025

- IT Product owner and Technical Lead, translating complex operational data from enterprise platforms into actionable insights for high-level stakeholders.
- Wrote and optimized SQL queries against large relational datasets to support analytics, legacy reports, and end-user data extracts from both Power BI and Microsoft Paginated Reports.

- Developed Python APIs and automation workflows integrating Oracle, Cognos, Power BI, and scheduled reporting systems, significantly reducing manual operational effort.
- Managed automated enterprise reporting pipelines using GitHub Actions, Azure Databricks, and DataStage with monitoring, recovery, and operational support processes.
- Prioritized technical debt, operational reliability improvements, and stakeholder requirements within Agile sprint planning processes.
- Led cross-functional technical learning and employee engagement initiatives involving cybersecurity labs, mentoring, and company-wide collaboration activities.

Cabrillo Coastal General Insurance Agency - Systems Analyst Jun 2016 – Jan 2021

- Worked with VP to build out and improve on our client facing phone tree as well as built dashboards and reports providing leadership insights into call volumes and other metrics.
- Independently developed automation tooling using Postman, Python, and Selenium to generate, bind, and validate insurance quotes for testing and operational efficiency.
- Served as primary technical contact for the company’s comparative rater API integration.

Pioneer Hi-Bred (Beijing, China) Senior Research Associate Jun 2013 – Jun 2015

- Served as primary liaison between U.S., China, and Australia research teams.
- Developed barcode labeling and tracking solutions replacing manual Excel-based workflows.
- Delivered software training and technical support across research sites.

Pioneer Hi-Bred - Research Associate Jan 2008 – May 2013

- Designed and implemented an environmental monitoring system integrating sensor data into Spotfire dashboards for operational analysis.

Education & Certifications

Oregon State University

Post-Baccalaureate Computer Science (3.9)

Microsoft Certified:

Power BI Data Analyst Associate (DP-300)

University of Florida

M.S. Agronomy (3.8)

Dual Bachelors: BS Botany & BA East Asian Languages & Literature (Mandarin Chinese)