

David Vaillant

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🌐 D-Vaillant

Experience

- 2021–Present **Data Analyst**, *X (via ERGInc)*, Mountain View.
Answered business questions with a combination of Pandas, SQL, and stubbornness.
- Created ETL pipelines between our inventory management system, existing device information, and Salesforce.
 - Worked with hardware team to design and run temperature validation processes. Transitioned process from manual work done via Mathematica to an automated Python script that uploads results directly to a BigQuery database.
 - Architected and implemented an Experiment API to simplify and unify operational and data analysis processes.
- 2019–2021 **Software Quality Specialist**, *Waymo (via Crowdstaffing)*, Mountain View.
Analyzed instances of misbehavior by self-driving vehicles and applied root cause analysis to determine the specific software system responsible.
- Streamlined the software fault analysis workflow using SQL-driven dashboards.
 - Implemented productivity-saving features for proprietary applications.
 - Designed and managed the rollout of new workflows across multiple teams.
- 2017–2018 **Mathematics Tutor**, *West Valley College*, Saratoga.
Tutored disadvantaged students in algebra, statistics, and fundamental concepts in mathematics.
- 2015–2016 **Technical Intern**, *Desert Farms Camel Milk*, Santa Monica.
Provided technical support for an online small business.
- Saved hours of manual labor by programmatically querying and organizing customer orders using Ruby scripting.
 - Improved the performance and responsivity of the online storefront, increasing customer satisfaction and retention.

Education

- 2010–2014 **BSc. Mathematics**, *University of California, Santa Barbara*.
Studied combinatorics, graph theory, linear algebra, and the foundations of statistics.
- BA. Philosophy**.
Specialization in logic and the philosophy of mathematics.

Proficiencies

- OS** Windows, Linux, FreeBSD
- Languages** Python, SQL, \LaTeX , C++
- Tools** bash, git, GCP (Cloud Run, Composer, BigQuery, Spanner), Salesforce