

# David Vaillant

📞 (408) 439 7551  
✉ david@vaillant.io  
🌐 D-Vaillant

## Experience

- 2021–Present **Support Technician**, *X (via ERGInc)*, Mountain View.  
Managed customer fulfillment, organized and tracked device inventory, and worked with Data Science to provide useful insights to the rest of the team.
- Further developed nascent inventory management system, greatly decreasing the amount of taken to batch edit device states and creating a SQL interface.
  - 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.
- 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,  $\text{\LaTeX}$ , C++
- Tools** bash, git, GCP (Cloud Run, Composer, BigQuery, Spanner), Salesforce