

# David Vaillant

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👤 D-Vaillant

## 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.

## Experience

- 2019–Present **Software Fault Analyst**, *Waymo (via Crowdstaffing)*, Mountain View.
  - Provided detailed metrics on the behavioral faults of self-driving vehicles.
  - Leveraged Python, SQL, and Pandas to present data efficiently and accurately.
  - Created web applications which integrated multiple informational pipelines to provide useful analytics about software failures; increased quality and productivity across the entire Software Fault Analysis team.
- 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.
  - Saved hours of manual labor by programmatically querying and organizing customer orders using Ruby scripting.
  - Improved the performance and responsivity for the online storefront and increased customer satisfaction and retention by correcting a crucial underlying software defect.

## Programming Languages

Python	●●●●○	<i>Flask/SQLAlchemy, numpy, scikitlearn, pandas, matplotlib, seaborn.</i>
Bash	●●●○○	<i>Whatever is useful at the time.</i>
C++	●●○○○	<i>Protobufs.</i>
Javascript	●●○○○	<i>jQuery.</i>
Ruby	●○○○○	<i>Ruby on Rails.</i>

## Software Proficiencies

- OS** Windows, GNU/Linux (Arch, Debian), FreeBSD
- Databases** SQLite, PostgreSQL, GoogleSQL  
Experience with relationship databases and server management.  
Highly proficient in adapting to new technologies.