

# DAVID T. WELLS

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## DATA PLATFORMS & ANALYTICS SOFTWARE ENGINEER

**Senior Software Engineer** with **8 years** of experience building and scaling **data-driven** applications, and **analytics platforms**. Specialized in **high-performance data driven systems**, large-scale data processing, and application architecture. Experience leading a software engineering team as **Scrum Master**. Proven track record of **improving system performance**, building **clean frontend layouts**, designing normalized & efficient **relational architecture**, and planning **full-stack** systems. Known for driving **platform-wide design pattern** improvements, and optimizing **data performance** at scale.

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## CORE COMPETENCIES

- **Programming Languages:** JavaScript, Typescript, SQL, Java, HTML5, CSS3, PHP, Python, JSON, YAML
  - **Front-End Technologies:** Vue.js, React, Nuxt, Pinia, Tailwind, Sass, Material Design, Bootstrap
  - **Back-End Development:** REST APIs, Django, Laravel, PHP, Javascript
  - **Database Management:** MySQL, SQL Server, Relational Data Modeling, ORMs, Normalization
  - **Development Tools:** git, GitHub, GitLab, Docker, Nginx
  - **Specialized Skills:** AI-assisted development, Behavior Driven Development, Agile & Scrum Practices, Data Visualization Tools, Design Patterns, Data Analytics, Object Oriented Design
  - **Cloud Skills:** GCP, AWS, Lightsail, S3, Docker, Route 53, EC2, IAM Permissions, Billing and Cost Management analysis
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## EDUCATION

**Bachelor of Science in Computer Science**, Colorado State University, Fort Collins, CO      December 2019

**Bachelor of Arts in Sociology**, Fort Lewis College, Durango, CO      May 2013

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## RELATED EXPERIENCE

**Full Stack Developer, MeasuringU**      **March 2021-Present**

*Led development of a data-driven SaaS analytics platform, focusing on backend performance, and efficient, maintainable object oriented systems. Recognized as team expert in database design & frontend implementation.*

- Served as **Scrum Master** for a 7 person engineering team, leading **sprint planning**, retrospectives, backlog refinement.
- Architected and delivered scalable full-stack features using **PHP, Vue.js, SQL**, and **REST API's**.
- Improved **requirements documentation**, and ticket clarity contributing to an **increased team velocity of 25%+**.
- Led a platform-wide **frontend redesign** using **Vue.js, Sass, Pinia**, and **Material Design** system.
- Built **interactive analytics dashboards** processing 1M+ data points using **Charts.js, PHP**, and **SQL**, leveraging Object Oriented & Hexagonal architecture capable of handling **1,000,000+ data points**.
- Designed normalized **relational schemas**, and optimized queries **improving load times by 3-5x**.
- Participated in designing & administering **technical interviews** and helped **onboard new engineers**.

- Leveraged **AI-assisted development tools** to accelerate delivery while maintaining strong testing and code review practices.
- **Developed AI-driven features** including **transcript generation**, translations, and summarizations.

**Data Science Developer, Mountain Data Group** **May 2019-March 2021**

*Processed and modeled massive datasets to improve predictive accuracy and analytical insights for research teams.*

- **Promoted** from Software Developer Intern to Data Science Developer, contributing to increasingly advanced analytics and **predictive modeling initiatives**.
- Integrated external datasets (census, weather, and violent crime) into **statistical models**, improving predictive accuracy and meaningful depth of analysis.
- Leveraged Python's data analytics stack to process and analyze **datasets exceeding 1 billion records**, extracting actionable insights at scale.
- Automated data ingestion and update pipelines, **reducing downtime to near zero**, and improving slow query **performance by up to 100X**.
- Developed **time-series and big-data models** supporting academic research in travel risk analysis, dangerous lead exposure, and assessing/quantifying public trust.
- Conducted **exploratory research** to evaluate new datasets' reliability, correlation, and completeness including GIS, UK demographic, and violent crime data.
- Performed **data visualization programming** with **GIS** tools, **D3**, and **Python** data visualization libraries similar to ArcGIS, supporting spatial analysis and visual reporting.

**Web Application Developer, Environmental Health Services at CSU** **May 2017-May 2019**

*Built custom web tools for public health and environmental risk management used by multiple university departments.*

- Created **custom web applications** for Environmental Health, Public Health, and Risk Management departments supporting internal administrative data workflows.
- Planned and implemented APIs, databases, and interactive dashboards, **supporting 10-15 CSU department administrators**.
- Led development of **data-driven applications** for drone tracking, public health logging, ergonomics assessments, and international travel risk management.
- Translated non-technical stakeholder requirements into scalable technical solutions and workflows.
- Collaborated on team projects using **pair programming** and **Agile practices**, leading to an efficient and flexible team.
- Applied **SOLID principles**, and object-oriented **design patterns** to produce extensible, maintainable systems.