David J. Wilson, PhD

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Summary

Staff Data Scientist with ten years experience in data analytics, including substantial experience leading product analytics teams. Specialties include applying a rigorous and product-oriented approach to Trust and Safety and employee-focused domains. Passionate about the role data can play in understanding how to solve complex problems. Academic background (PhD) in Computer Science and Mathematics.

Professional Experience

Meta, Inc. (formerly Facebook, Inc.), San Francisco, US.   **Nov '23–Present**
Staff Data Scientist, Instagram Trust & Safety.
- Defined measurement for product interventions to prevent harm from Scam accounts.
- Collaborated across multiple teams at Meta to develop holistic understanding of various harms on the platform.
- Built out quantified harm funnel to identify attack vectors of bad actors and interventions to protect benign users.

Meta, Inc. (formerly Facebook, Inc.), San Francisco, US.   **Mar '20–Nov'23**
Head of People Engineering Data Science.
- Built and manage team of ten data scientists supporting 15+ products for Meta Employees.
- Led development of a north star metric for People Products (Expected Impact of employees throughout their career at Meta) used to evaluate success of the entire organization.
- Worked with stakeholders across product and program (HR) to ensure alignment of success metrics and research direction.
- Supported the team through two major re-organizations and multiple leadership changes.
- Conduct metrics reviews and research roadmap reviews every half for the organization.
- Trained as a company interviewer, and lead multiple company-wide courses for Data Scientists.

Meta, Inc. (formerly Facebook, Inc.), San Francisco, US.   **Aug '16–Mar '20**
Data Scientist, People Products.
- Supported full suite of internal products focused on career development, employee engagement, and workforce management.
- Specialities included performance management, learning and development, manager effectiveness, and workforce management.
- Created and maintained dataset around organizational network analysis. Built metrics and performed research using this data (including the effect of remote work post-COVID).
- Supported the Diversity, Equity, and Inclusion team, including the preparation of data published in the Meta Diversity Report.

GuideSpark, Inc., San Francisco, US.   **Sept '14–Aug '16**
Data Engineer (formerly Software Engineer).
- Full stack engineer for web-based video app.
- Data Engineer, responsible for data warehouse design, data integrity, and reporting.
- Gave company presentations about data collection and usage, and trained new engineers.
- Conducted independent projects used to drive sales and help increase customer satisfaction.

Data Connection (now MetaSwitch Networks), London, UK.   **June '08–Aug '08**
Software Engineer Intern.
- Designed randomized stress-testing environment for VoIP client in `C`.

Professional Training

Data Analyst Nanodegree. Udacity.   **Jan '15–Dec '15**
- Online project-driven certification in data analysis and data science skills including: exploratory data analysis; machine learning; data visualization; A/B testing.
- Technologies: Python, R, pandas, numpy, scipy, MongoDB, pyMongo, ggplot2, scikitlearn, d3.js.

Technical Skills

Data Science: SQL (Presto, MySQL); Python (`pandas`); Exploratory data analysis; Product analytics; Network analysis (`networkx`); Machine learning (`scikitlearn`); A/B Testing.
Data Engineering: Data pipelining; Dashboarding (Tableau); Database design; Version control (`git`, `mercurial`).

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Education	**Ph.D.**, Computer Science. University of Bath (UK).	**Sept '11–July '14**
	■ PhD Thesis: *Advances in Cylindrical Algebraic Decomposition*	
	■ Thesis Topics: Computer algebra and real algebraic geometry	
	■ Advisors: Professor James H. Davenport and Dr Russel J. Bradford	
	M.S., Pure Mathematics. Rutgers, State University of New Jersey (USA).	**Sept '09–June '11**
	■ Masters' Thesis: *On K. F. Roth's 'On Certain Sets of Integers'*	
	MMath, Mathematics (*Double First Hons.*). University of Oxford (UK).	**Sept '05–June '09**
	■ Undergraduate Dissertation: *Amalgams and the Coset Graph*	
Publications and Research	■ 18 peer-reviewed papers across 5 highly-regarded conferences and two journals in Symbolic Computation and Computer Algebra (www.davidjw.co.uk/researcher).	
	■ Research presentations at 4 international conferences and 2 national conferences.	
	■ CICM 2014 Doctoral Programme Chair.	
	■ CICM 2015 (Calculemus) Program Committee.	
Teaching Experience	**Lab Supervisor & Course Head Tutor**. University of Bath (UK).	**Sept '11–June '14**
	Teaching Assistant. Rutgers, State University of New Jersey (USA).	**Sept '10–June '11**
Notable Awards	**Fulbright Commission**. Fulbright Scholarship, Postgraduate Student Award.	**Sept '09**
	Engineering and Physical Sciences Research Council. UK ICT Pioneers finalist.	**Oct '14**
References	*Available upon request.*	