CHRISTOPHER CLARK

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EXPERIENCE

Senior Data Visualization Engingeer ~ *Feb. 2017 – Present*
Deepfield Networks / Nokia ~ Ann Arbor, MI

Full stack web development with a focus on data visualization, code base modernization, and application architecture for a petabyte-per-second-scale network infrastructure analytics application.

- Major contributions to modernizing developer culture including repeatable processes for code review, diversified automated testing, planning, and documentation
- Dev team leadership, mentoring, active recruiting, on-boarding, and agile process management
- Spearheaded efforts to unify application data model with rigorous schema-based approach

Senior Application Programmer / Analyst ~ *Jul. 2015 – Jan. 2018*
Center for Statistical Genetics, University of Michigan ~ Ann Arbor, MI

Full stack web development including data visualization, security, scalability, and open source community management. Mentored technical staff and biostatistics graduate students. Key projects:

- LocusZoom.js (locuszoom.org) – Interactive visualization of genome-wide association studies with d3; implemented for Type 2 Diabetes research with the Broad Institute of MIT and Harvard
- Genes for Good (genesforgood.org) – 75,000 participant genetic research study; LAMP stack web application with surveys, cognitive experiments, and administrative tools; 25,000 participants genotyped with secure personal genetic data distribution pipeline

Director, Software Development & Information Technology ~ *Aug. 2006 – Mar. 2015*
SparkFun Electronics, Inc. ~ Boulder, CO

Built Dev/IT department from inception to staff of 15. Hired developers, systems/network admins, QA, and data analysts. Managed an annual budget of $1.7M for staff and all organization IT assets. Architected and oversaw development of eCommerce platform (sparkfun.com) and ERP system.

- Directly contributed to growth of annual revenue from $3.8M in 2007 to $32M in 2014
- Designed network and security infrastructure for new 80,000 ft^2 office and manufacturing space
- Presented technical, business, and strategic talks at conferences in North America and Europe

Image Processor / Web Developer ~ *April 2004 – April 2007*
Space Science Institute ~ Boulder, CO

Processed image data and developed web-based data processing and presentation tools for the Imaging Science Subsystem (ISS) of the Cassini mission to Saturn.

- Integrated content pipeline with NASA/JPL remote databases
- Spearheaded creation of tool chain for processing image sequences into videos
- Built a science-grade web-based image processing GUI using Interactive Data Language (IDL)

Independent Web Developer ~ *Continuous, projects include:*

FamilyGiftRegistry.net	**Nuclides.org**	**EclipseTracks.org**
Free private registry for families to organize gift-giving events	Interactive d3 visualization of the elements and isotopes	Interactive visualization of solar eclipse events with Cesium

EDUCATION

University of Colorado at Boulder ~ *December 2007*
Bachelor of Arts, Mathematics ~ (Minor, Astronomy)

TECHNICAL

Languages etc.: Javascript (d3, React), Python, PHP, MySQL, PostgreSQL, Git, Salt, Docker, AWS...
Patterns/Methodologies: MVC, Test-Driven Development, DevOps, Agile
Media: UI and UX design, color theory, photography, videography, sound & video editing

PERSONAL

Passionate public speaker. Scientifically literate. Advocate for privacy and open source.
Interests include camping, time-lapse photography, world travel, animals, and crossword puzzles.