Jim Vallandingham

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SELECTED PROJECTS

Vallandingham.me: Created a number of advanced web-based interactive visualizations and tutorials showcasing data visualization techniques using modern Javascript frameworks.
Measurement Lab Vis: Developed a data transformation pipeline, API, and advanced exploratory visualization tool to provide access to over 200 million global internet speed tests.
Illuminati: Architected and implemented an automated pipeline quality control and analysis of Illumina high throughput sequencing data.

WORK

Data Visualization Engineer – Bocoup   2015 – present

- Designed and developed web-based data-driven visualization tools for a variety of clients.
- Utilized a combination of data exploration and user-centered design practices to ensure visualization solutions are feasible and satisfy the needs of stakeholders as well as users.
- Created a number of teaching resources on visualization subjects including an introduction to data manipulation in Javascript, and a workshop on text analysis and visualization.

Data Scientist II – Nordstrom Data Lab   2013 – 2015

- As part of a small team of engineers and data scientists, designed and implemented a product recommendation system used in production on Nordstrom.com.
- Developed data visualizations and data-driven tools to analyze fulfillment processes and pinpoint areas of improvement for personnel.
- Developed an algorithm for advanced customer segmentation and utilized it for improved personalization of email marketing materials.

Programmer Analyst II – Stowers Institute for Medical Research   2011 – 2013

- Worked with researchers to analyze NGS genomic data from model organisms and uncover answers to basic biological questions.
- Produced integrated and reusable interactive data visualizations to allow for scientists to analyze their own data without analyst intervention.
- Designed, developed, and implemented software to automate routine data analysis and quality control pipelines to reduce time spent on repetitive tasks.

Software Engineer – Garmin International   2009 – 2011

- Designed and implemented complex new features from start to finish, such as real time safety camera alerts, a key component driving increased sales in European markets.
- Spearheaded improvements to development processes including a transition to a modern code repository system and improving code quality through the use of unit tests and continuous integration.

EDUCATION

Master of Science, Computer Science   May 2009
University of Kansas, Lawrence, Kansas.

Bachelor of Science, Biology   May 2005
Pittsburg State University, Pittsburg, Kansas.
Minors: Computing, Chemistry, Physical Science.