

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 user-centered design practices to ensure visualization solutions satisfied 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 an 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 store staff.
- 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 genomic datasets 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 to allow my team to quickly get to interesting and novel questions they have about these datasets.

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 current 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, GPA: 3.8
University of Kansas, Lawrence, Kansas.

May 2009

Bachelor of Science, Biology, GPA: 3.9
Pittsburg State University, Pittsburg, Kansas.
Minors: Computing, Chemistry, Physical Science.

May 2005