KANIT "HAM" WONGSUPHASAWAT (RESUME)

kanitw@gmail.com   @kanitw   +1(240) 485 4282   http://kanitw.github.io   Last Updated Jan 16, 2018

EDUCATION

University of Washington (Exp. Summer'18)
MS & PhD Computer Science & Engineering
Area: HCI, Data Visualization, Data Science
Advisor: Dr. Jeffrey Heer

Stanford University (2013)
MS Management Science & Engineering
Area: HCI, Entrepreneurship
★ Awarded Fulbright Fellowship

Chulalongkorn University (2010)
BEng Computer Engineering
★ Awarded Gold Medal & HM The King Scholarship (ranked 1st of 800+ students)

EMPLOYMENT

Interactive Data Lab, University of Washington – Graduate Researcher (Data Visualization Tools)   **2013-Present**
- Lead the design, development, and evaluation of **Voyager**, a recommendation-powered visualization tool for exploratory data analysis – manage a team of 5 developers (★ Won Knight Prototype Grant, adopted by Jupyter data science community)
- Co-lead the design & development of the **Vega-Lite** grammar for interactive visualizations–manage a team of 7 developers (30k NPM downloads/month, shipped with JupyterLab, wrapped in Python as Altair, used at Apple, Google, Microsoft, Netflix, and Twitter)
- Conduct interviews with data scientists to understand current practices and difficulties in exploratory data analysis

Google Inc. – Software Engineering Intern (Big Picture Group, Google Research)   **2015**
- Led the design & development of **TensorFlow Graph Visualizer**, a tool to visualize dataflow graphs of deep learning models (with Dr. Martin Wattenberg, Dr. Fernanda Viégas & Google Brain) – Shipped with TensorBoard (TensorFlow's official dashboard tool)

Trifacta Inc. – Software Engineering Intern (Research & Development)   **2014**
- Designed & prototyped intelligent user interfaces for data cleaning and transformations

Tableau Software Inc. – Research Intern (Visual Analysis Team)   **2013**
- Designed & prototyped visualization recommender system (with Dr. Jock Mackinlay & Dr. Anushka Anand) ★ US Patented

Stanford University – Graduate Researcher   **2012-2013**
- UI lead of **VentureLab**, a MOOC platform (spun off as NovoEd); peer assessment for MOOC research with Dr. Scott Klemmer

Google Inc. - Software Engineering Intern (HCI Group, Google Research)   **2012**
- Developed a mobile social software application (with Dr. Elin Pedersen and Dr. Bay-Wei Chang)

Thomson Reuters Software - Software Engineering Intern, Associate Software Engineer   **2009, 2010-2011**
- Led UI Design for Alerting and Monitoring System of Thomson Reuters Market Data System

Singha Corporation (Thailand) - Management Trainee Intern   **2010**
- Organized regional marketing campaign to increase sales

SELECTED PUBLICATIONS

Voyager 2: Augmenting Visual Analysis with Partial View Specifications
Wongsuphasawat, et al. ACM Human Factors in Computing Systems (CHI) 2017.

Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations
Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2015. ★ 1 of 4 Top TVCG papers invited to SIGGRAPH'16

Vega-Lite: A Grammar of Interactive Graphics
Satyanarayan, Moritz, Wongsuphasawat, Heer. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2016. ★ Best Paper Award (Top 1)

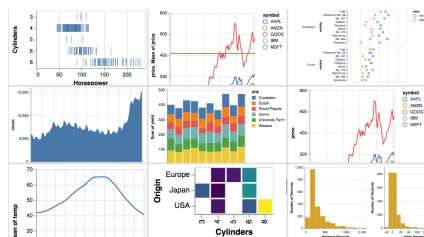**Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow**
Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (VAST) 2017. ★ Best Paper Award (Top 1)

GraphScape: A Model for Automated Reasoning about Visualization Similarity and Sequencing.
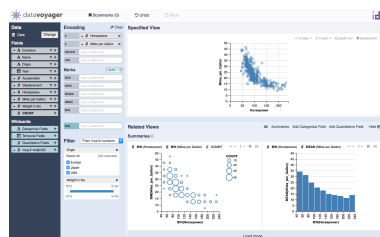Kim, Wongsuphasawat, et al. ACM Human Factors in Computing Systems (CHI) 2017. ★ Best Paper Honorable Mention (Top 5%)
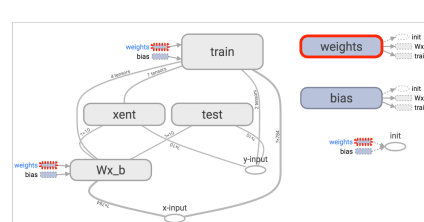
SKILLS

Coding: (Proficient) JavaScript/TypeScript, HTML/CSS, d3.js, React (Knowledgeable) Python, Java; **Data Analysis:** Tableau, Machine Learning
User-Centered Design: Experimental Design, Qualitative Interview; **Creative Authoring:** Sketch, Keynote, OmniGraffle, Illustrator

Vega-Lite: Grammar of Interactive Graphics
http://vega.github.io/vega-lite

Voyager: Intelligent Visualization Tool
http://github.com/vega/voyager

TensorFlow Graph Visualizer
http://idl.cs.washington.edu/papers/tfgraph