KANIT "HAM" WONGSUPHASAWAT   [RESUME]

kanitw@gmail.com   @kanitw   +1(240) 485 4282   http://kanitw.github.io

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EDUCATION

University of Washington (Exp. Sep'18)
Ph.D. Computer Science & Engineering
Focus: UI, Data Visualization, Data Science
Advisor: Dr. Jeffrey Heer

Stanford University (2013)
M.S. Management Science & Engineering
Focus: Entrepreneurship, User Interface (UI)
★ Awarded Fulbright Fellowship

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

EXPERIENCE

Interactive Data Lab, University of Washington – *PhD Student / Data Visualization Researcher*   **2013-Present**
Lead the design & development of **Voyager**, a recommendation-powered visualization tool for exploratory data analysis–manage a team of 6 research assistants, conducted user studies (★ Won Knight Prototype Grant, adopted by Jupyter community)
Co-lead the design & development of **Vega-Lite**, a concise grammar for interactive visualizations–manage a team of 6 research assistants (>150k downloads on NPM as of Nov'2017, shipped with JupyterLab, wrapped in many languages–e.g., Altair in Python)
Conduct interviews with data scientists to understand current practices and difficulties in exploratory data analysis

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

Trifacta Inc. – *Software Engineering Intern*   **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 Student / Researcher*   **2012-2013**
UI lead of **VentureLab**, a MOOC platform (spun off as **NovoEd**); peer assessment for MOOC research with Dr. Scott Klemmer

Google Research - *Software Engineering Intern (HCI Group)*   **2012**
Developed a mobile social software application (with Dr. Elin Pedersen)

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) 2016. ★ 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) 2017. ★ Best Paper Award (Top 1)

Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow
Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (VAST) 2018. ★ 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%)
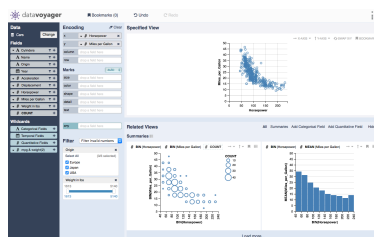
SKILLS

Coding: *(Proficient)* JavaScript/TypeScript, HTML/CSS, d3.js, React *(Knowledgeable)* Python, Java; **Data Analysis:** R / Tableau;
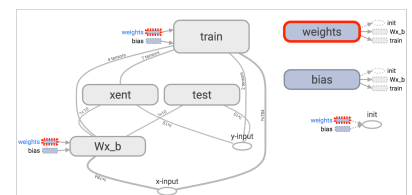**User-Centered Design:** Experimental Design, Qualitative Interview; **Creative Authoring:** Sketch, Keynote, OmniGraffle, Illustrator
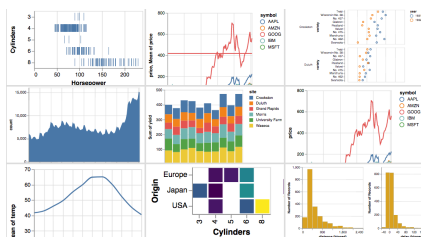
Vega-Lite: Grammar of Interactive Graphics
http://*vega.github.io/vega-lite*

Voyager: Intelligent Visualization Tool
http://*vega.github.io/voyager*

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