

KANIT (HAM) WONGSUPHASAWAT

CURRICULUM VITAE

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Address AC101 Paul G Allen Center 185 Stevens Way Seattle, WA 98195

RESEARCH INTERESTS

Information Visualization, Human-Computer Interaction (HCI), Data Science, Intelligent User Interfaces, Mixed-Initiative Systems, Recommender Systems

EDUCATION

- Sep. 2013 - Present **University of Washington–PhD Student in Computer Science & Engineering**
Focused in Human-Computer Interaction & Information Visualization
Advisor: Jeffrey Heer
Courses: Machine Learning, Computer Systems, Artificial Intelligence, Research Design
Seminars: HCI/ Interactive Systems, Database, Computer Science Colloquium
- Sep. 2011- Jun. 2013 **Stanford University – MS in Management Science & Engineering**
Focused in Human-Computer Interaction & Entrepreneurship, GPA: 3.99/4.00
Advisor: Amin Saberi
Courses: (HCI) Intro to HCI, HCI Studio, Research in HCI, Data Visualization, Statistical Methods for Social Science (Design) Designing Digital Media, Creative Gym, Design/Improv, Social Brands, Design Research; (Business) Marketing, Strategy in Tech Industry, Accounting, Finance, Entrepreneurial Finance & Management; (OR) Optimization, Decision Analysis
- Jun. 2006 - Feb. 2010 **Chulalongkorn University (Thailand) – BEng in Computer Engineering**
Focused in Computer Science, GPA 3.93/4.00, Valedictorian Gold Medal Award
Advisor: Sukree Sinthupinyo
Courses: (CS) Discrete Math, Algorithms, System Analysis, Software Engineering, AI, OS, Database, Computer Architecture, Network, Distributed Systems, Graphics, Formal Language, Computer Security; (Management) Organization Management, Marketing, Entrepreneurship; (Arts&Design) Photography, Packaging Design, Design Drawing
- ## EMPLOYMENT
- Sep. 2013 - Present **University of Washington, Computer Science & Engineering– Graduate Researcher**
Working with Prof. Jeff Heer, researching Visualization Recommendation and Interactive Visualization Design Tools.
- Jun. 2014 – Sep. 2014 **Trifacta Inc. – Software Engineering Intern**
Designed and Prototyped Intelligent User Interfaces for Data Cleaning
[\[HTML/CSS, Javascript, Python, PySpark, Scikit-learn, Flask\]](#)
- Jun. 2013 – Sep. 2013 **Tableau Software Inc. – Research Intern**
Designed & prototyped an interactive system for visual analysis (with Dr.Jock Mackinlay and Tableau’s Visual Analysis Team)
[\[HTML/CSS, Javascript, AngularJS\]](#) #Infovis, #VisualAnalysis, #HCI, #UI, #System
- Jan. 2012 – Jun. 2012 **Stanford University – Graduate Researcher**
Developed Peer Assessment System for Massive Online Classroom (with Dr. Scott Klemmer).
[\[HTML/CSS, Javascript, Python, Flask\]](#) #HCI, #Online Education, #Social, #UI
Worked with Prof. Amin Saberi to research on Online Education; responsible for early user interface design and development of Venture-lab.org, the first team-based Massive Online Open Classroom. (Now venture-lab.org has become novoed.org)
[\[HTML/CSS, Javascript, Twitter Bootstrap, Ruby on Rails\]](#) #HCI, #Online Education, #Social, #UI
- Jun. 2012 – Sep. 2012 **Google Inc. (Google Research) – Software Engineering Intern**

Worked with Dr. Elin Pedersen and Dr. Bay Wei Chang in Google Research's HCI group to develop concepts for a social mobile application; designed user interfaces and implemented a fully functional prototype android application.

[Java/Android] #HCI, #Mobile, #Social, #UI, #System

Aug. 2010 – Apr. 2011

Thomson Reuters Software – Associate Software Engineer

Designed and developed User Interface for Alerting and Monitoring System 1.1, a new system to replace obsoleted TIBCO Hawk for Thomson Reuters Financial Market Data System.

[Adobe Flex/Actionscript] #UI, #System

Mar. 2010 - May 2010

Singha Corporation (Thailand) - Management Trainee Intern

Organized a cultural event in southern Thailand to support Thai Norah dance and increased sales & brand awareness in the region.

Mar. 2009 - May 2009

Thomson Reuters Software - Software Engineering Intern

Developed Total Test Case Management System for Data Access Control System Quality Assurance Team. *[VB.NET]* #System

REFEREED PUBLICATIONS

2014

(Paper) **Declarative Interaction Design for Data Visualization.** *Satyanarayan, A., Wongsuphasawat, K., Heer, J.*, ACM User Interface Software and Technology 2014. Honolulu, HI. (Acceptance Rate 22%)

2012

(Extended Abstract) **You Can't Force Calm: Designing and Evaluating Respiratory Regulating Interfaces for Calming Technology.** *Wongsuphasawat, K., Gamburg, A., Moraveji, N.*, ACM User Interface Software and Technology 2012. Boston, MA. (Acceptance Rate 41%)

TECHNICAL REPORT

2009

Plasma-Z: Team Description for Robocup: Small Size League. *Chuengsatiansup C., Charoensriphongsa, T., Wongsuphasawat, K., Rattana, K., Doungsodsri, P., Buathong, A., Wejwittayaklung, K., Wongsaisuwan, M., Wannasuphoprasit, W.*, International Robocup 2009. Graz, Austria.

INVITED TALKS

January 2014

Brief Introduction to Human-Computer Interaction

Faculty of Engineering, Chulalongkorn University

FORMER PROJECTS & ACHIEVEMENTS

(more details about projects at <http://kanitw.yellowpigz.com>)

Apr. 2012 – Jun. 2012

Breathwear – Calming User Interface

Designed user interfaces for respiratory regulation using visual and auditory guidance; conducted user studies to compare effect of both guidance. (Poster presented at UIST2012)

[Objective-C, iOS] #HCI, #CalmingTechnology, #UI, #Mobile

Oct. 2009 – Feb. 2010

FaceSpot – Face Detection and Recognition add-on to F-Spot

(Winner of Thailand National Software Contest 2010)

Project Leader, Front End Software Engineer - Face Detection and Recognition add-on to F-Spot, leading open-source photo management software; Enabled F-Spot users to categorize their pictures by Face Recognition feature *[C#/Mono Framework]* #System, #UI

Sep. 2007 - Jul. 2009

Plasma-Z Soccer Robot System

(3rd Place of Small-size League - International Robocup 2009)

Computer System Engineer Group Leader–Developed a multi-agent cooperation and control computer system for highly dynamic soccer robots in Robocup Small Size League.

[C#, .NET] #System, #Robotics

Mar 2007 - June 2008 **Vidview: Mobile Video Client**
(Winner of SAMART Innovation Award 2007 / Runner-Up – Thailand ICT Award 2008 / 3rd Place High Performance Award -Accenture Academic Exhibition 2008)
Team Leader–led development of Mobile application that enabled Online Video Watching in Java-supported cellphone [*Java, JavaME*] #UI, #Mobile, #System

2008 **ACM ICPC Regional Contest 2008** (Association for Computing Machinery: International Collegiate Programming Contest) at KL, Malaysia
(Honorable Mention)
Team captain in Algorithmic problem solving challenge
[*C*] #Programming Contest

2004-2005 **Thailand Olympiad in Informatics**
(Bronze Medal of National Competition & Nation Top 10 Finalist 2004, National Top 10 Finalist & Thailand IOI Substitute Representative Candidate in 2005)
National-level Algorithmic & Programming Problem Solving challenge
[*C*] #Programming Contest

TEACHING

Jan. - Mar. 2014 **CSE512 Data Visualization Course Assistant** – Computer Science & Engineering, UW
With Prof. Jeffrey Heer; facilitated teaching and graded assignments; designed and taught a series of tutorial workshops for interactive visualization development on the web with d3.js; redesigned class website; redesign class logistics – make the class submissions available on github. (<http://github.io/CSE512-14W>)

Jun. - Sep. 2010 **Entrepreneurship Course Assistant** – Chulalongkorn Business School
With Prof. Kavin Asavanant, facilitated teaching and graded assignments.

Jun. - Sep. 2009 **Discrete Mathematics Course Assistant**, Faculty of Engineering, Chulalongkorn
With Prof. Athasit Suralerk, facilitated teaching and created problem solving video tutorials.

Oct 2006 & Oct 2007 **Engineering Entrance Test Tuition Camp at Assumption College**
Program Founder & Lead Instructor: 3-week tuition for National Engineering Test at Assumption College.

HONORS & AWARDS

2011-2013 **Fulbright Fellowship**

2010 **His Majesty the King Bhumibol Undergraduate Scholarship**

2009 **HRH the Royal Crown Prince of Thailand Top Engineering Student Medal 2009**

2008, 2009 **University President Award**

2007 **Engineering Dean's Freshmen Award**

SERVICES & OTHER EXTRACURRICULAR ACTIVITIES

Fall 2014 **Interactive Systems Seminar** – Organizer

2011-Present **ACM** – Student Member

2013-Present **Design Use Build Group** – Member

2012 **ACM Symposium on User Interface Systems and Technology (UIST)** – Student Volunteer

2011-2012 **Stanford ACM, Business Association of Stanford Entrepreneurial Students (BASES), Stanford Design Initiative** – Member

- 2010 **Thai Young Philanthropists Network (2010)** – Web & IT Team Head of Social Enterprise Business Plan Competition Team
- 2010 **Capitol Toastmasters Club of Toastmaster International** – Member
- 2010 **Chulalongkorn Business Plan Club** – Member
- 2007-2010 **Chulalongkorn Photographer's club** – Member
- 2009 **Computer Engineering Student Council** – Head of Academic
- 2008-2009 **IEEE Computer Student Society Club** – Club President
- 2006 **Solution Guide for Calculus I&II Textbook** - Author
- 2003-2006 **Military Training** – Earned Rank of Sergeant in Royal Thai Army

RELEVANT SKILLS

Programming: Javascript, AngularJS, d3.js, Python, HTML/CSS, Git, R, Java (SCJP Cert.), Android, Scikit-learn

Data Analysis: R, ggplot, Tableau

User-centered Design: Rapid Prototyping, User Testing, Heuristic Evaluation, IRB Human Subject Training

Creative Authoring: Keynote, Sketch, OmniGraffle, Photoshop, Illustrator,

COLLABORATORS

Anushka Anand (Tableau Software), **Bay Chang** (Google), **Jeffrey Heer** (University of Washington), **Chinmay Kulkarni** (Stanford), **Jock Mackinlay** (Tableau Software), **Neema Moraveji** (Spire), **Elin Pedersen** (Google), **Arvind Satyanarayan** (Stanford), **Jeffrey A. Snyder** (University of Washington)