

# Kan Ouivirach

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- Profile** 7+ years experience in software development and data platform, from engineer to manager. Passionate in software engineering, data engineering, and data science.
- Current Position** Data Craftsman and Technical Coach, ODDS  
*Apr 2020 - Present*  
Help enterprises build a data platform and creating a data-informed culture in a way that empowers people to answer their own questions and make decisions based on findings.
- Act as a technical coach on projects, especially ones that require research and data analysis from a software development perspective. Develop, test, and maintain highly scalable data architectures to keep data accessible and ready for analysis. Build high-performance algorithms, prototypes, predictive models and proof of concepts. Research opportunities for data acquisition and new uses for existing data. Recommend ways to improve data reliability, efficiency, and quality.
- Experience** Software Engineer Manager, Pronto Tools  
*Jul 2019 - Mar 2020 (9 months)*  
Take care of all design and architecture. Guide and support a team of software engineers perform at their best. Act as liaisons between the engineering team and other teams within the company.
- Lead Software Architect, Pronto Tools  
*Sep 2017 - Jun 2019 (1 year 10 months)*  
Act as a lead on all internal and external projects, especially ones that require research and data analysis from a software development perspective. Develop, test, and maintain highly scalable data architectures to keep data accessible and ready for analysis. Build high-performance algorithms, prototypes, predictive models and proof of concepts. Research opportunities for data acquisition and new uses for existing data. Recommend ways to improve data reliability, efficiency, and quality.
- Research & Development Engineer, Pronto Marketing  
*May 2013 - Aug 2017 (4 years 4 months)*  
Develop, test, and maintain highly scalable architectures. Research opportunities for innovation. Recommend ways to improve platform reliability, efficiency, and quality.
- Graduate Teaching Assistant, Asian Institute of Technology  
*Aug 2012 - Dec 2012 (5 months)*  
Supervised students, taught lab, and graded work in Web Application Engineering mainly focusing on Ruby on Rails (around 15 students per class).
- Part-time Lecturer, Bangkok University  
*July 2011 - April 2012 (10 months)*  
Taught in Computer and Information Technology (around 50 students per class).

	<p>Graduate Teaching Assistant, Asian Institute of Technology  <i>Aug 2009 - Dec 2009 (5 months)</i>  Supervised students and graded work in Web Application Engineering mainly focusing on Ruby on Rails (around 15 students per class).</p>
<b>Selected Certifications</b>	<p>Astronomer Certification for Apache Airflow Fundamentals  <i>Issued Aug 2021</i></p> <p>Astronomer Certification DAG Authoring for Apache Airflow  <i>Issued Apr 2021</i></p>
<b>Interests</b>	<p>Data engineering &amp; science, and infrastrucutre, Web development, machine learning, computer vision and image processing.</p>
<b>Education</b>	<p><b>Asian Insititute of Technology, Thailand</b>  Ph.D., Computer Science, 2013.  <i>Thesis:</i> Incremental Human Behavior Modeling and Suspicious Activity Detection.</p> <p><b>Asian Insititute of Technology, Thailand</b>  M.Eng., Computer Science, 2008.  <i>Thesis:</i> Human Behavior Profleing for a Video Surveillance System.</p> <p><b>Kasetsart University, Thailand</b>  B.Eng., Computer Engineering, 2005.  <i>Senior Project:</i> Mining System using Classification based on Multiple Association Rules (CMAR).</p>
<b>Selected Publications</b>	<p>Ouivirach, K. and Dailey, M.N. (2013), Extracting the object from the shadows: Maximum likelihood object/shadow discrimination. In <i>Proceedings of ECTI-CON</i>, 2013. Article number 6559543.</p> <p>Ouivirach, K., Gharti, S., and Dailey, M.N. (2013), Incremental behavior modeling and suspicious activity detection. <i>Pattern Recognition</i>, 46(3): 671–680.</p> <p>Ouivirach, K., Gharti, S., Dailey, M.N. (2012), Automatic suspicious behavior detection from a small bootstrap set. In <i>International Conference on Computer Vision Theory and Applications (VISAPP)</i>, pp. 655–658.</p> <p>Ouivirach, K. and Dailey, M.N. (2010), Clustering human behaviors with dynamic time warping and hidden Markov models for a video surveillance system. <i>Proceedings of ECTI-CON</i>, 2010, pp. 884–888.</p>
<b>Professinal Activities</b>	<p>Reviewer for International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS), Thailand-Japan International Academic Conference (TJIA), Frontiers of Information Technology (FIT).</p> <p>Member of IEEE since 2009.</p>