

# Kan Ouivirach

zkan@hey.com

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7/86 Moo 2 Bangpood Pakkret Nonthaburi 11120  
+66-83-749-5568

- 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>Community Experience</b>	<p>Co Lead, Facebook Developer Circle: Bangkok  <i>Apr 2019 - Present</i>  <a href="https://developers.facebook.com/developerpercircles/">https://developers.facebook.com/developerpercircles/</a></p> <p>Community Organizer, PyLadies Bangkok  <i>May 2019 – Present</i>  <a href="https://pyladies.com/">https://pyladies.com/</a></p> <p>Community Organizer, Data Council Bangkok  <i>Dec 2018 – Present</i>  <a href="https://www.meetup.com/DataCouncil-AI-Bangkok-Data-Engineering-Science/">https://www.meetup.com/DataCouncil-AI-Bangkok-Data-Engineering-Science/</a></p> <p>Mentor, Django Girls  <i>May 2018</i>  <a href="https://djangogirls.org/">https://djangogirls.org/</a></p>
<b>Selected Certifications</b>	<p>Astronomer Certification DAG Authoring for Apache Airflow  <i>Astronomer. Issued Aug 2021</i>  <a href="https://www.credly.com/badges/cc7faa44-a61d-43f0-9131-dfbb47f0b219">https://www.credly.com/badges/cc7faa44-a61d-43f0-9131-dfbb47f0b219</a></p> <p>Astronomer Certification for Apache Airflow Fundamentals  <i>Astronomer. Issued Apr 2021</i>  <a href="https://www.credly.com/badges/39c4a9b5-ac2d-49bf-9e16-695eff2bc3e2">https://www.credly.com/badges/39c4a9b5-ac2d-49bf-9e16-695eff2bc3e2</a></p> <p>Flight Levels Introduction  <i>Flight Levels Academy. Issued Dec 2020</i>  <a href="https://www.flightlevels.io/">https://www.flightlevels.io/</a></p> <p>Flight Levels Flow Design  <i>Flight Levels Academy. Issued Nov 2020</i>  <a href="https://www.flightlevels.io/">https://www.flightlevels.io/</a></p>
<b>Interests</b>	Data engineering & science, and infrastrucutre, Web development, machine learning, computer vision and image processing.
<b>Technologies</b>	Python, Django, Go, Node.js, React, JavaScript, Cypress, HTML, CSS, Java, Spring Boot, HTML, CSS, AWS, Google Cloud, Pulumi, Terraform, Docker, Kubernetes, Apache Airflow, Apache Spark, Apache Kafka, RDBMS, NoSQL, Argo CD, Jenkins, Git, Jupyter Notebook
<b>Websites</b>	Personal Site: <a href="https://www.kanouivirach.com/">https://www.kanouivirach.com/</a> Hasnode: <a href="https://zkan.hashnode.dev/">https://zkan.hashnode.dev/</a> Medium: <a href="https://zkan.medium.com/">https://zkan.medium.com/</a> DEV Community: <a href="https://dev.to/zkan/">https://dev.to/zkan/</a>

**Education****Asian Insititute of Technology, Thailand**

Ph.D., Computer Science, 2013.

*Thesis:* Incremental Human Behavior Modeling and Suspicious Activity Detection.

**Asian Insititute of Technology, Thailand**

M.Eng., Computer Science, 2008.

*Thesis:* Human Behavior Profileing for a Video Surveillance System.

**Kasetsart University, Thailand**

B.Eng., Computer Engineering, 2005.

*Senior Project:* Mining System using Classification based on Multiple Association Rules (CMAR).

**Selected  
Publications**

Ouivirach, K. and Dailey, M.N. (2013), Extracting the object from the shadows: Maximum likelihood object/shadow discrimination. In *Proceedings of ECTI-CON*, 2013. Article number 6559543.

Ouivirach, K., Gharti, S., and Dailey, M.N. (2013), Incremental behavior modeling and suspicious activity detection. *Pattern Recognition*, 46(3): 671–680.

Ouivirach, K., Gharti, S., Dailey, M.N. (2012), Automatic suspicious behavior detection from a small bootstrap set. In *International Conference on Computer Vision Theory and Applications (VISAPP)*, pp. 655–658.

Ouivirach, K. and Dailey, M.N. (2010), Clustering human behaviors with dynamic time warping and hidden Markov models for a video surveillance system. *Proceedings of ECTI-CON*, 2010, pp. 884–888.

**Professinal  
Activities**

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).

Member of IEEE since 2009.