

Kan Ouivirach

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Profile 10+ years experience in software development and data engineering & science, from engineer, manager, to coach. Passionate in software engineering, data engineering, and data science.

Current Position **Data Product Developer 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.

Teach the following hands-on workshops for the ODDS team and career switchers.

- Data Pipelines with Apache Airflow
- Analytics Engineering with dbt
- Introducing Kafka
- Python & Django for Web Application Development
- React from Beginner to Advanced

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.

Also, act as a mentor for the software engineering team and interns.

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.

Act as a mentor for interns.

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).

Graduate Teaching Assistant, Asian Institute of Technology

Aug 2009 – Dec 2009 (5 months)

Supervised students and graded work in Web Application Engineering mainly focusing on Ruby on Rails (around 15 students per class).

**Community
Experience**

Founder, Data Engineer Cafe

Feb 2019 – Present

<https://www.meetup.com/DataCouncil-AI-Bangkok-Data-Engineering-Science/>

Community Organizer, Data Council Bangkok

Dec 2018 – Present

<https://www.meetup.com/DataCouncil-AI-Bangkok-Data-Engineering-Science/>

Co Lead, Facebook Developer Circle: Bangkok

Apr 2019 – May 2022

<https://developers.facebook.com/developercircles/>

Community Organizer, PyLadies Bangkok

May 2019 – Present

<https://pyladies.com/>

Mentor, Django Girls

May 2018

<https://djangogirls.org/>

**Selected
Certifications**

Data Engineering Nanodegree

Udacity. Issued Mar 2022.

<https://graduation.udacity.com/confirm/DX2LZHEW>

Astronomer Certification DAG Authoring for Apache Airflow

Astronomer. Issued Aug 2021.

<https://www.credly.com/badges/cc7faa44-a61d-43f0-9131-dfbb47f0b219>

Astronomer Certification for Apache Airflow Fundamentals

Astronomer. Issued Apr 2021.

<https://www.credly.com/badges/39c4a9b5-ac2d-49bf-9e16-695eff2bc3e2>

Flight Levels Introduction

Flight Levels Academy. Issued Dec 2020.

<https://www.flightlevels.io/>

Flight Levels Flow Design

Flight Levels Academy. Issued Nov 2020.

<https://www.flightlevels.io/>

Interests	Data engineering & science, and infrastrucutre, Web development, machine learning, computer vision and image processing.
Technologies	Python, Django, Go, Node.js, React, JavaScript, Cypress, HTML, CSS, Java, Spring Boot, HTML, CSS, AWS, Google Cloud, Pulumi, Terraform, Docker, Kubernetes, Apache Airflow, Dagster, Apache Spark, Apache Kafka, dbt, RDBMS, NoSQL, Argo CD, Jenkins, Git, Jupyter Notebook
Websites	Personal Site: https://www.kanouivirach.com/ GitHub: https://github.com/zkan/ Substack: https://kanouivirach.substack.com/ Hasnode: https://zkan.hashnode.dev/ Medium: https://zkan.medium.com/ DEV Community: https://dev.to/zkan/
Education	Asian Insititute of Technology, Thailand Ph.D., Computer Science, 2013. <i>Thesis:</i> Incremental Human Behavior Modeling and Suspicious Activity Detection. Asian Insititute of Technology, Thailand M.Eng., Computer Science, 2008. <i>Thesis:</i> Human Behavior Profileing for a Video Surveillance System. Kasetsart University, Thailand B.Eng., Computer Engineering, 2005. <i>Senior Project:</i> 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 <i>Proceedings of ECTI-CON</i> , 2013. Article number 6559543. Ouivirach, K., Gharti, S., and Dailey, M.N. (2013), Incremental behavior modeling and suspicious activity detection. <i>Pattern Recognition</i> , 46(3): 671–680. 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. 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.

**Professional
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.