

Kan Ouivirach

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BearCamp Interactive Co., Ltd. (Headquarters)
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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>
Community Experience	<p>Co Lead, Facebook Developer Circle: Bangkok <i>Apr 2019 - Present</i> https://developers.facebook.com/developerccircles/</p> <p>Community Organizer, PyLadies Bangkok <i>May 2019 – Present</i> https://pyladies.com/</p> <p>Community Organizer, Data Council Bangkok <i>Dec 2018 – Present</i> https://www.meetup.com/DataCouncil-AI-Bangkok-Data-Engineering-Science/</p> <p>Mentor, Django Girls <i>May 2018</i> https://djangogirls.org/</p>
Selected Certifications	<p>Astronomer Certification DAG Authoring for Apache Airflow <i>Astronomer. Issued Aug 2021</i> https://www.credly.com/badges/cc7faa44-a61d-43f0-9131-dfbb47f0b219</p> <p>Astronomer Certification for Apache Airflow Fundamentals <i>Astronomer. Issued Apr 2021</i> https://www.credly.com/badges/39c4a9b5-ac2d-49bf-9e16-695eff2bc3e2</p> <p>Flight Levels Introduction <i>Flight Levels Academy. Issued Dec 2020</i> https://www.flightlevels.io/</p> <p>Flight Levels Flow Design <i>Flight Levels Academy. Issued Nov 2020</i> https://www.flightlevels.io/</p>
Interests	Data engineering & science, and infrastrucutre, Web development, machine learning, computer vision and image processing.
Education	<p>Asian Insititute of Technology, Thailand Ph.D., Computer Science, 2013. <i>Thesis:</i> Incremental Human Behavior Modeling and Suspicious Activity Detection.</p> <p>Asian Insititute of Technology, Thailand M.Eng., Computer Science, 2008. <i>Thesis:</i> Human Behavior Profileing for a Video Surveillance System.</p> <p>Kasetsart University, Thailand B.Eng., Computer Engineering, 2005. <i>Senior Project:</i> Mining System using Classification based on Multiple Association Rules (CMAR).</p>

**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.

**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.