

PONGSAKORN U-CHUPALA

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EDUCATION

Nara Institute of Science and Technology
Nara, Japan (2013-present)

Kasetsart University

Bangkok, Thailand (2008-2013)

- Ph.D. Candidate, Computer Science, Graduate School of Information Science
- Master of Engineering, Computer Science, Graduate School of Information Science (GPA: 4.00)
- Bachelor of Engineering, Computer Engineering, *Cum Laude* (GPA: 3.54)

AWARDS AND QUALIFICATIONS

- 990 Points, TOEIC IP, June 2015
- 101 Points, TOEFL iBT, October 2012
- Level N3, Japanese Language Proficiency Test, September 2012
- "Good" Rank, The 1st POSN National Computer Olympiad Competition, 2005

EXPERIENCE

2014 • Visiting Scholar at CallIT2, University of California San Diego, United States

2013 • External Researcher at HPCNC Laboratory, Kasetsart University, Thailand
• Developer at Innovative Extremist Co. Ltd.

2012 • Google Student Ambassador SEA, Google Inc.
• Outsourced Developer for Onebit Matter Co., Ltd.
• Outsourced Developer for Diversition Co., Ltd.

2011 • Exchange Student in FrontierLab@OsakaU Program, Osaka University, Japan

2009-2010 • Part-time Developer at Thoth Media Co., Ltd. (now Thoth Zocial Co., Ltd.)

ORGANIZATIONS

- PRAGMA Student Steering Committee, 2015-present
- Google Developer Group Thailand, 2012-present

SKILLS

- Web Technology and Web Development
- HPC, Cluster Computing and Virtual Cluster
- Cloud Computing
- Virtualization and Virtual Machine
- Linux Containers (including Docker)
- Linux Administration
- Computer Networking
- Software-Defined Network and OpenFlow
- Data Science and Big Data Analysis
- Primary language: Python (including Django)
- Secondary languages: C, C++, C#, Java, PHP, Ruby, JavaScript

LINKS

- LinkedIn: [linkedin.com/in/puchupala](https://www.linkedin.com/in/puchupala)
- Github: github.com/KnightBaron
- Profile: knightbaron.github.io
- ResearchGate: [researchgate.net/profile/Pongsakorn_U-chupala](https://www.researchgate.net/profile/Pongsakorn_U-chupala)

NOTABLE PROJECTS

- **PRAGMA-ENT (2014-present)**: Breakable international SDN testbed for PRAGMA community. Shared administration responsibility over sites at NAIST, Osaka University, University of California San Diego and University of Florida.
- **Overseer (2013-present)**: OpenFlow controller for bandwidth and latency aware routing implemented with POX. Master's thesis.
- **PRAGMA Boot (2013-2014)**: A program to instantiate VM in PRAGMA's cloud. Responsible for OpenNebula plugin written in Ruby.
- **eCOSTamp (2013-2014)**, Electronics collectible stamp platform combining web service, smartphone application and 3D-printed Arduino-based hardware. Part of Creative and International Competitiveness Project (CICP2013) supported by NAIST.
- **Nyanlive (2013)**: A complete solution for creating and maintaining video streaming platform. Responsible for streaming authentication/authorization system and the internal API implemented with Django.
- **ByteArk (2013)**: S3-compatible SEA-based CDN. Part of the team responsible for the internal API.
- **Knowbita (2013)**: Online lecture archive of department of computer engineering, Kasetsart University. Responsible for the internal API implemented with Django.
- **OBVOC (2012)**: Social media monitoring platform. Responsible for the early version of social media data collection using Python.
- **Kpiology (2010)**: Social media analytics platform. Responsible for the early version of Twitter™ data collection and analytics using Python.
- **Change (2010)**: Web-based multiplayer game inspired by Civilization™ written with Django and jQuery. The 3rd place in Web Contest section, National Software Contest (NSC) 2010
- **The Zenith (2005)**: Scrolling shooter game. Consolidation award in Entertainment section, National Software Contest (NSC) 2005

PUBLICATIONS

- S. Date, H. Abe, D. Khureltulga, K. Takahashi, Y. Kido, Y. Watashiba, P. U-Chupala, K. Ichikawa, H. Yamanaka, E. Kawai, and S. Shimojo, "An Empirical Study of SDN-accelerated HPC Infrastructure for Scientific Research," in 2015 International Conference on Cloud Computing Research and Innovation (ICCCRI), 2015, pp. 89–96.
- K. Ichikawa, M. Tsugawa, J. Haga, H. Yamanaka, T.-L. Liu, Y. Kido, P. U-Chupala, C. Huang, C. Nakasan, J.-Y. Chang, L.-C. Ku, W.-F. Tsai, S. Date, S. Shimojo, P. Papadopoulos, and J. Fortes, "PRAGMA-ENT: Exposing SDN Concepts to Domain Scientists in the Pacific Rim," in PRAGMA Workshop on International Clouds for Data Science (PRAGMA-ICDS) 2015, 2015.
- P. U-chupala, K. Ichikawa, H. Iida, N. Kessaraphong, P. Uthayopas, S. Date, H. Abe, H. Yamanaka, and E. Kawai, "Application-Oriented Bandwidth and Latency Aware Routing with OpenFlow Network," in The 6th IEEE International Conference on Cloud Computing Technology and Science (CloudCom), 2014.
- P. U-chupala, P. Uthayopas, K. Ichikawa, S. Date, and H. Abe, "An implementation of a multi-site virtual cluster cloud," in The 2013 10th International Joint Conference on Computer Science and Software Engineering (JCSSE), 2013, pp. 155–159
- P. U-chupala, K. Ichikawa, H. Abe, S. Date, and S. Shimojo, "A Virtual Cluster Manager using a Hierarchical Management Model for Cloud Infrastructure," in The 6th International Conference on Ubiquitous Information Technologies and Applications (CUTE), 2011.