

PONGSAKORN U-CHUPALA

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EDUCATION

Nara Institute of Science and Technology
Nara, Japan (2013-2018, *scheduled*)

Kasetsart University
Bangkok, Thailand (2008-2013)

- Doctor of Engineering, 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

2017 • Internship at Information Technology Research Institute, AIST, Japan

2014 • Visiting Scholar at CalIT2, 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
- Computer Networking
- Software-Defined Networking and OpenFlow
- HPC, Cluster Computing and Virtual Cluster
- Cloud Computing
- Virtualization and Virtual Machine
- Linux Containers (including Docker)
- Linux Administration
- Data Science and Big Data Analysis
- Machine Learning including Deep Learning
- Programming Languages (ordered by proficiency): Python, C++, PHP, JavaScript

LINKS

- LinkedIn: [linkedin.com/in/puchupala](https://www.linkedin.com/in/puchupala)
- Github: github.com/KnightBaron
- Profile: knightbaron.github.io
- ORCID: orcid.org/0000-0002-8952-661X
- ResearchGate: 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 (FIRST AUTHOR)

- P. U-chupala, Y. Watashiba, K. Ichikawa, S. Date, and H. Iida, "Container Rebalancing: Towards Proactive Linux Containers Placement Optimization in a Data Center," in The 41th IEEE Computer Society International Conference on Computers, Software & Applications (COMPSAC), 2017.
- 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.