

# 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 1<sup>st</sup> 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
- Languages: Thai (Native), English (Business Proficiency), Japanese (Limited Proficiency)

## LINKS

- LinkedIn: [linkedin.com/in/puchupala](https://www.linkedin.com/in/puchupala)
- Github: [github.com/KnightBaron](https://github.com/KnightBaron)
- Profile: [knightbaron.github.io](https://knightbaron.github.io)
- ORCID: [orcid.org/0000-0002-8952-661X](https://orcid.org/0000-0002-8952-661X)
- ResearchGate: [researchgate.net/profile/Pongsakorn\\_U-chupala](https://researchgate.net/profile/Pongsakorn_U-chupala)

## NOTABLE PROJECTS

- **GainViz** (2017): Web-based visualization tool for Gainesville city's open-data. Best hack award, CENTRA2 Student Hackathon.
- **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 3<sup>rd</sup> 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. Kessraphong, 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.