SAROT BUSALA

(+66)818737637 ⋄ Sarot.Bu@student.chula.ac.th

EDUCATION

Chulalongkorn University, Bangkok Thailand
Candidate for M.Eng. in Computer Engineering **August 2019 - Present**
B.Eng. in Computer Engineering **June 2015 - June 2019**

ACHIEVEMENTS

17th place (from more than 2,000 teams worldwide), IEEEXtreme 11.0 **2017 October**
25th place (from more than 2,000 teams worldwide), IEEEXtreme 10.0 **2016 October**
11th place, ACM-ICPC Asia Yangon Regional Contest **2017 December**
14th place (2nd of Thailand), ACM-ICPC Asia Bangkok Regional Contest **2016 September**
27th place, ACM-ICPC Asia Phuket Regional Contest **2015 September**
Silver Medalist, 10th Thailand Olympiad in Informatics **2014 May**

PUBLICATIONS

- Busala, S., & Sirivichayakul, T., & Iida, H., & Khalid, M., & Yusof, K. (2018). Single Conspiracy Number analysis in Checkers. 11th International Conference on Agents and Artificial Intelligence (ICAART). (2019). **Presented on 19-21 Feb. 2019 (Nominated Best Poster)**

EXPERIENCE

Contract Remote Engineer, Nysus, AI startup based in Hong Kong **2019 July - Present**
- Implemented backbone library and proof-of-concept of on-going research.

Intern, Runster, Online Exercise Game **2019 January - 2019 July**
- Designed and implemented self-adaptable AI and worked on system with mobile device as a sensor.

Undergraduate Senior Project, Surface Normal Estimation **2018 August - 2019 June**
- Estimated surface normal of an object from 2D images by deep learning. (Working with Lumio3D).

Research Student, Japan Advanced Institute of Science and Technology **2018 May - 2018 July**
- Researched, implemented alpha-beta pruning, proof-number search, and conspiracy number.

Part-time Data Engineer, Donuts Bangkok Co., Ltd. **2018 January - 2018 May**
- Implemented content-based recommender system for website contents (sistacafe.com)

Individual Study Student, CU Game Laboratory **2017 August - 2017 December**
- Improved RTS game AI by Dynamic scripting (Reinforcement online learning technique).
- Implemented genetic algorithm in C++, both incremental and generational model.
- Analyzed results, used consecutive win rates to assess performance and designed states appropriated for dynamic scripting, allowed learning processes to reach boundaries faster.

Founder of Thailand competitive programming platform Codecube.in.th **2015 June - Present**
- Organised 90% of competitive programming contests on the site, set problems, generated test cases, cross-checked solultions, created and supervised editorials, supervised problem setters.

EXTRACURRICULAR ACTIVITIES

Computer Olympiad Tutor, Triam Udom Suksa School Computer Club **2013 - 2018**
Prepared lectures on computer olympiad topics including splay trees, persistent segment tree, etc.

Computer Engineering Chulalongkorn University Hello CP World Day, **2016 August**
Leader of organising team who introduce freshmen to Computer Engineering department including details about computer engineering program, class, culture, club.

Leadership Camp of Triam Udom Suksa School **2012**

TECHNICAL SKILLS

Technical Skills	C++, Python, Java, Haskell, SQL, MongoDB
Interests	Artificial Intelligence, Evolutionary Algorithm, Computer Vision , Computer Graphics, Realtime Physics Simulation
Languages	Thai (Native), English (Advanced, TOEFL iBT 89), Japanese (JLPT N4)