Clement FUJI TSANG

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EDUCATION

School of Computing, National University of Singapore *September 2012 – December 2016*
Exchange semester in Computer Science
Relevant Coursework: Uncertainty modeling in AI, Computer Vision and Pattern Recognition, AI Planning and Decision Making, Parallel Computing.

University of Technology of Troyes, FR *September 2012 – December 2017*
Dipl.-Ing. (equivalent to M.Sc.) in Systems, Networks and Telecommunications
Relevant Coursework:

- Machine Learning applied to Embedded Systems (B), Embedded Systems (A), Theory of Information and Encoding (A), Transmission of Information (B), Signal Analysis and Processing (A), Digital Processing of Signal and Image (A), Systems administration (C), Introduction to Information Systems Security (A)
- Introduction to Algorithm (B), Introduction to C (B), Electronic Systems (C), Graphs algorithms and networks modelisation (A)
- Linear Algebra (C), Advanced Analysis (B), Introduction to Probability (C)

EXPERIENCE

Binghamton University – SUNY, Binghamton, NY *February 2016 – June 2016*
Research Intern in Machine Learning

- Applying Deep Learning algorithms to steganalysis and steganography problems
- Under Prof. Jessica Fridrich supervision

Morpho (Safran Identity & Security), Issy-les-Moulineaux., FR *February 2016 – June 2016*
Research Intern in Machine Learning

- Reduced computation time of CNN forward pass and their memory size (x1.36 / x1.7 / x9 speedup and respectively 1.7 / 2.5 / 16 compression ratio for an accuracy degradation inferior to 5% / 15% / 47%)
- Implemented algorithms on Caffe (C++, Python)
- Developed python script to evaluate and test implementation, generate datasets.

Institute of mechanics sports (student association) , Troyes, FR *September 2012 - present*
Projects Leader

- Designed the secondary robot for the robotics French Cup (Ranked 49/150 with only the secondary robot).
- Managed a 4 people research team on location system.
- Developed odometric algorithm and computer vision based solution to identify simple geometric pieces.

University of Technology of Troyes, Troyes, FR *February 2015 - June 2015*
Documentary Research – Supervised Project

- Made a documentary research on digital circuits applied for mathematics: operators, trigonometric functions, signal processing, image processing

UTT Net Group (student association), Troyes, FR *May 2014 - July 2014*
Arcade machine restoration

- Restored an arcade machine with emulation for the UTT students hall, modified the hardware and the drivers to use specifics controllers and screen.

SKILLS

Language – Native in French, fluent in English (BULATS Level C1+), elementary in Chinese

Relevant Skills – Python, C, C++, CUDA, MPI, Linux / Bash, Matlab / Scilab, Probabilistic graphical models, Embedded Protocols.

REFERENCES

Prof. Dr.-Ing Michel Doussot
Head of "Mobile Technology and Embedded Systems" engineering program
Department of Computer Science and Telecommunication
University of technology of Troyes
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Dr. Jonathan Milgram

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Safran Identity and Security (previously named Morpho)
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Prof. Dr.-Ing Remy Cogranne
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