VICTOR QUACH

PhD student in Machine Learning, seeking internship summer 2019

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EDUCATION

PhD student in the NLP group

CSAIL, MIT

Sep 2017 – Ongoing Cambridge, MA

- Working on Natural Language Grounding
- Interested in Transfer Learning and Multi-Task Learning techniques for NLP (Information Extraction, Representation Learning)
- GPA = 5.0/5

Master's degree in Computer Science and Mathematics

École polytechnique

Sep 2014 – Aug 2017 Palaiseau, France

Cycle Ingénieur Polytechnicien (X2014), one of France's top programs for Sciences and Engineering

- Relevant courses: Artificial Intelligence in Mathematical Reasoning, Advanced Algorithms, Topological Data Analysis, Cryptology, Algebraic Number Theory, Text Mining and NLP
- Ranked 21st (top 6%). GPA = 3.93/4

EXPERIENCE

Research Intern in the Cognitive ML team

ENS Ulm – EHESS

Apr 2017 – Aug 2017 Paris, France

- Benchmarked hierarchical neural architectures on logical reasoning tasks
- Experimented with hypernetworks in a meta-learning setting
- Implemented models using Pytorch

Web Developer intern

Theodo

Jun 2016 – Aug 2016 Paris, France

- Developed a Symfony application for ELSAN, a medical company and increased app usage by 100% in 2 months
- Practised Lean and Scrum among a team of five

Officer cadet - Leadership training

Compagnie de Gendarmerie Nationale

Dec 2014 – Apr 2015 Paris, France

- Assisted the unit commander in leading 100+ gendarmes for law enforcement
- Planned and coordinated an anti-delinquency operation involving 4 teams

PROJECTS

Toplogical Data Analysis of NBA Statistics

Oct 2016 – Mar 2017

- Used the Mapper Algorithm to understand the topological structure of NBA data
- Implemented visualization using D3.js

Ticket Dependancy Graph

Aug 2016

Trello add-on for handling dependencies between cards

- Conceived and implemented an interactive graph for storing and displaying dependencies using Vue.js and GoJs

MITM attack

Jun 2016

Final project for the *Hacking* course

- Used our own Wi-Fi router, custom DNS server, Squid proxy and ICAP protocol to intercept victims' passwords

TOOLBOX

Python | JS | OCaml | Java | C++

PyTorch | NumPy | Pandas | Tensorflow | OpenCV

Django | Flask | Vue.js | Symfony | nginx | Docker

MacOs | Linux | vim | tmux | Git

AWARDS

Bronze medal
International Math Olympiad, 2012

Bronze medal
Balkan Math Olympiad, 2012

Second national prize - Math
Concours Général, 2012

Third national prize - Biology
Concours Général, 2012

"Outstanding Investment"
École polytechnique, 2016