NGUYEN XUAN BINH

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Summary

A dedicated and skilled individual with a strong background in data science and computational engineering. Demonstrates a blend of academic excellence and interdisciplinary working experience in different engineering domains. Seeks a Master thesis position to further expand expertise in the Data Science/Artificial Intelligence field.

Education

- Bachelor of Science: **Computational Engineering** – 2020 - 2023
  Aalto University, Espoo, Finland   Cumulative GPA: 4.86
- **Languages:** English (proficient), Finnish (basic), Vietnamese
- **Award:** Aalto School of Engineering Dean's List 2021-2022 and 2022-2023

Technical Skills

- Data science: Machine learning, Artificial Intelligence, Business Analytics, Probabilistic Methods, Deep Learning, Reinforcement Learning
  Languages and frameworks: Python, Pytorch, Tensorflow, R, Stan, Julia
- Cloud software and security: AWS, Information Security, Cryptography, Computer Networks, High-Performance Computing, Parallel Computing
  Languages and frameworks: CSC HPC services, Scala, C++, OpenMP

Experiences

- Teaching assistant in Artificial Intelligence course (1 - 4/2023)
- Research assistant at Aalto Mechanical Engineering Department (3/2023 - Now): Conducting material testing, running engineering simulations and writing papers.
- Summer internship advisor in material characterization (6 - 9/2023): Mentored two projects of international interns, guiding them to successfully deliver good results.
- Computational Engineering Project advisor in material optimization (9 – 12/2023): Responsible for advising a graduation project topic for 3 Bachelor-level students.

Projects

- Chat application: software supporting IPv4 and IPv6 network with integrated GUI
- Abaqus macromechanics: Bayesian Optimization of hardening law to fit force displacement curves, which uses CSC service for running simulations.
- Parallel computing: parallelized sorting algorithms, vectorization, GPU utilization
- Published conference paper on applied machine learning in material modeling