

SHAW NGUYEN

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SUMMARY

I am an enthusiastic **Data Scientist**, driven by my strong academic foundation and passion for **Computer Science**. With 9 years of programming experience, I have actively contributed to AI research and industrial projects for 4 years, demonstrating my dedication to staying at the forefront of advancements in this field. Additionally, I have expanded my skills in developing desktop-based solutions and gained valuable experience. Continually driven by a thirst for knowledge, I am eager to apply my expertise to tackle real-world challenges. I am actively seeking opportunities to contribute to cutting-edge projects in the exciting domains of **Data Science and Artificial Intelligence**.

EDUCATION

University of Michigan <i>Master of Applied Data Science; GPA: 4.00/4.00</i>	Ann Arbor, USA <i>January 2024 - Present</i>
Hanoi University of Science and Technology (HUST) <i>Bachelor of Data Science and Artificial Intelligence; GPA: 3.80/4.00</i>	Hanoi, Vietnam <i>August 2019 - July 2023</i>
Ostbayerische Technische Hochschule Regensburg (OTH) <i>Exchange Student at Department of Information Technology</i>	Regensburg, Germany <i>March 2021 - July 2021</i>
Tran Phu Gifted High School <i>Specialized Student in Mathematics</i>	Haiphong, Vietnam <i>August 2016 - July 2019</i>

EXPERIENCE

Moreh, Inc. <i>GPU Engineer</i> <ul style="list-style-type: none">Fields: High performance computing (HPC), Large language model (LLM), AI infrastructure.Top 1 performance in a team of 20 members.	Seoul, Korea <i>December 2023 – Present</i>
Data Science Laboratory <i>AI Researcher</i> <ul style="list-style-type: none">Fields: Continual Learning (CL), Natural Language Processing (NLP), Computer Vision (CV).First author of an A*-ranked conference paper.	SOICT, HUST <i>March 2021 – July 2023</i>
VinBigData <i>Teaching Assistant</i> <ul style="list-style-type: none">Teaching assistant for Talented AI Engineer training program: Machine Learning (ML), Deep Learning (DL).	Hanoi, Vietnam <i>July 2023 – August 2023</i>
Shaw Software <i>Software Developer - Self Employed</i> <ul style="list-style-type: none">Fields: Data Scraping, Data Management, AI Engineering, Optimization, Process Automation.Developed an out standing product with a monthly cash flow of 5 - 6 million \$.	Hanoi, Vietnam <i>May 2019 – Dec 2022</i>

SKILL

Math & Basic Science <ul style="list-style-type: none">Calculus, Algebra, Probability & StatisticsApplied Statistics & Empirical AnalysisDiscrete Math, Optimization, General Physics	Programming <ul style="list-style-type: none">Python, Numpy, SQL, Java, C/C++, R, DjangoDesign: UML, Lucid ChartScraping: Network Analyzer, API, Selenium, ScrapyScikit-learn, Pytorch, TensorFlow, KerasData Visualization: PowerBI, Seaborn, MatplotlibBig Data ecosystem: Hadoop, Spark, KafkaImage Processing: OpenCV, Pillow, Scikit-ImageWindow, MacOS, Ubuntu experienced
Industrial Core <ul style="list-style-type: none">Data Structures & AlgorithmsCryptography, Computer NetworksComputer Architecture, Operating systemDatabase, Big DataObject-Oriented ProgrammingMachine Learning, Deep LearningComputer Vision, Natural Language ProcessingBusiness Analysis, Web MiningMachine Learning Operations	Working <ul style="list-style-type: none">Agile Software Development, Git, AWS, DockerWriting: LatexSlide design: Beamer, PowerPointPresentation: Vietnamese, EnglishTeam/independent work skillsEfficient Googling and use of ChatGPT

HONORS & AWARDS

SUMMER 2016	Bronze Medal at Vietnam National Competition in Mathematics using Casio Calculator
SUMMER 2017	Gold Medal at The competition to select excellent students in the Vietnam Coastal and Red River Delta region.
SPRING 2018	Third Prize at Vietnam Olympiad in Informatics
WINTER 2018	Master Level at Codeforces
WINTER 2018	First Prize (Rank 4) at Vietnam National Free Contest Cup
SPRING 2019	First Prize (Rank 5) at Vietnam Online National Olympiad in Informatics
SUMMER 2019	Odon Vallet Scholarship
AUTUMN 2019	Top 0.07% (Rank 4/6065) at Codeforces Contest (Round 592)
WINTER 2019	The ICPC Asia Danang Regional Contest
WINTER 2020	The ICPC Asia Cantho Regional Contest
SPRING 2021	OTH (Germany) Exchange Scholarship

OUTSTANDING PROJECTS

llama2.c - LLM Serving <i>LLM, HIP, CUDA</i>	March 2024
<ul style="list-style-type: none">Accelerating llama2.c LLM Serving through GPU Optimization.Achieved 1.5 times faster compared to the current SOTA LLM serving implementation, vLLM.	
Continual Relation Extraction via Sequential Multi-task Learning <i>CL, NLP</i>	June 2023
<ul style="list-style-type: none">Solved the Continual Relation Extraction problem.Accepted at AAAI 2023 Conference.Archieved state-of-the-art (SOTA) results compared to multiple 2023 SOTA CRE baselines.	
Automated Billing Payment Software <i>API, Selenium, Proxy Server, Parallel Programming</i>	
<ul style="list-style-type: none">Automated the payment process, minimizing manual intervention.Payment gateway: Tiki Ecommerce Vietnam.Monthly payments: 5 - 6 million \$.	

OTHER PROJECTS

Name	Related Fields	Time
Automated Trading in the Vietnam Stock Market	Finance	AUTUMN 2023
Stock Platform (SSI) Trading Package	Finance	SUMMER 2023
E-commerce Platform for Clothing Sales	System Design	SUMMER 2023
Big Data Storage for Tiki platform	Big Data, ML, DL	SPRING 2023
Tiki Scraping System	Automation	SPRING 2023
Continual Learning in Image Classification	DL, CL	SPRING 2023
Farm RPG	Game	SUMMER 2022
Analysis of Vietnam High School National Exam results	Data Science	SPRING 2022
Human Pose Estimation	DL, CV	AUTUMN 2021
Image Generation From Limited Data	DL, GAN	SUMMER 2021
Stock Price Prediction	ML, DL	SPRING 2021
Image Classification	DL, CV	WINTER 2020
Sentiment Analysis	DL, NLP	AUTUMN 2020
Housing Prices Prediction	ML, DL	SUMMER 2020
Gmail Account Manager	Automation	SUMMER 2020
Bitcoin Price Sideways Breaking Signal	Statistics, Probability	SPRING 2020
Vehicle Routing Problem	Optimization	SPRING 2020

For additional information, please check my Github (located at the top of this resume). However, please note that some industrially related projects cannot be viewed due to privacy reasons.

REFERENCE

Ph.D. Ngo Van Linh <i>Data Science Lab</i>	Hanoi University of Science and Technology
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