HOANG **NGUYEN**

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A builder passionate about building applied artificial intelligence (AI) solutions, plus about a decade of professional experience in quantitative research and project management

Skills

Full-stack Development, Artificial Intelligence, Data Analytics, Cloud Services, Database, UI/UX design, Interpersonal, Organizational and Mentoring Skills

Technical tools

Python (NumPy, Pandas, PySpark, Fast API, Flask), TypeScript (Express JS, React JS, React Native), Git, Docker, REST API, CSS (Tailwind), AWS (EC2, S3), PostgreSQL, MongoDB, Firebase, Open AI, Langchain, LlamaIndex, Figma,

Professional Experience

Research assistant (Dec 2020-Present)
Fisheries and Marine Institute of Memorial University of Newfoundland
- Programmed statistical models for the population the dynamics of redfish in the Northwest Atlantic Fisheries
- Leveraged Global Fishing Watch API to retrieve commercial fishing effort data for modelling

Principal Researcher (Jan 2019 – Dec 2019)
Vietnam Sea-culture Association
- Conducted studies on environmental issues associated with marine farming operations in Vietnam
- Developed inter-national connections to promote sustainable aquaculture in Vietnam

Academic Tutor (Jan 2017-Dec2017)
University of Tasmania
- Provided one-on-one mentoring for indigenous students at University of Tasmania

Software Development Experience (Jan 2022 – present)
- Develop applied AI solutions including mobile and web applications, prototypes, computer vision model fine-tuning, agentic applications. Project examples are as follows:

MediSync AI (**hackathon best-overall prize project**)
- Developed an AI agent to enable medical professionals to easily analyze and visualize patient historical records using retrieval augmented generation techniques

Bird classification (available on AppStore)
- Developed an IOS application to classify bird species using a fine-tuned YOLOv8 model and reveal fun facts of the bird

Education

Graduate student in Quantitative fisheries modelling (Jan 2020 - 2024)
Marine Institute of Memorial University of Newfoundland, Canada

Master of Applied Science in Marine Environment with Honors (Jun 2016 - Dec 2018)
University of Tasmania, Australia

Bachelor of Biotechnology (Sep 2002 - Sep2007)
Nha Trang University, Vietnam

Other professional experience

Fisheries Official at Directorate of Fisheries of Vietnam, 2012-2016
Secretariat at Southeast Asian Fisheries Development Center, 2014
Researcher in the field of marine environment, fisheries management, 2008-2012

Honors & Awards

Best-Overall Prize at the DO.IT hackathon, May 2024

Australia Awards Scholarships by The Department of Foreign Affairs and Trade of Australia, Jul 2015

Certificate of Appreciation for Work and Dedication by Southeast Asian Fisheries Development Center, Dec 2014