

HOANG NGUYEN

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Highlights of Qualifications

A professional with a decade of experience in quantitative research and project management transitioning to software development with a passion for building applied artificial intelligence solutions

Skills

- Full stack development
- Data Analytics
- Cloud, Database
- Artificial intelligence

Technical tools

- Python (Flask, Fast API), Typescript (Express JS, React JS, React Native), HTML, CSS (tailwind), Git, GitHub, Docker
- MS Excel, Python (NumPy, Pandas, Scikit-learn, PySpark), R, PostgreSQL, Hadoop
- AWS EC2, AWS S3, Supabase, Firebase, MongoDB, Qdrant
- OpenAI, Langchain, LlamaIndex, TensorFlow, Ultralytics

Experience

Research assistant (Dec 2020 – Present)

Fisheries and Marine Institute of Memorial University of Newfoundland

- Modelled the population dynamics of redfish in the 3LN divisions under the Northwest Atlantic Fisheries
- Leveraged Global Fishing Watch API to retrieve commercial fishing effort data

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 – Dec 2017)

University of Tasmania

Provided one-on-one tutoring for indigenous students at University of Tasmania

Highlights of Development Experience (Jan 2022 – Present)

MediSync AI (hackathon best-overall prize project)

- Enables medical professionals to easily analyze and visualize patient historical records using retrieval augmented generation techniques
- TypeScript (Express JS, React JS), Langchain JS, MongoDB, Open AI
- Demonstration video www.youtube.com/watch?v=0E2VGkUw9dQ

Bird classification (available on AppStore)

- Classifies bird species using images and tells fun facts about the bird using a computer vision model
- JavaScript (React Native), Python (Flask), Firebase, Open AI
- TensorFlow, Ultralytics for model analysis and development
- Demonstration video: youtu.be/wF7Je4-l1L4

A 2-layer Neural Network from Scratch

- Provides a straightforward understanding of the mathematics behind neural network using NumPy
- GitHub link github.com/LeoUtas/2-layer_neural_network.git

More projects in my portfolio: leoutas.github.io/react_portfolio

Education

Graduate student in Quantitative fisheries modelling (Jan 2020 - Dec 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

Earlier 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