

Hoang Nguyen

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PROFILE

Strong background in quantitative analysis with formal training, experienced in software development, data analytics engineering, also nearly a decade of professional experience in research and management

SKILLS & TECHNICAL TOOLS

- Databases: MongoDB, PostgreSQL, Qdrant
- Analytics Engineering: SQL, Kestra (orchestration), PySpark, Pandas, NumPy, Faker (data simulation), Python and R
- AI Tools: LangChain, LlamaIndex, OpenAI API
- Backend: Express JS, Flask, Fast API
- Frontend: React Native (focus on Expo), React JS, Tailwind CSS, NativeWind, Shadcn
- UI Design and Diagram Tool: Figma
- Authentication: AuthO, Firebase, Clerk, Supabase
- Cloud: AWS (IAM, VPC, EC2, RDS, S3, CloudWatch)
- Infrastructure as Code: Terraform
- Supporting Tools: Git, GitHub, Docker

EXPERIENCE

- Research Assistant - programming statistical models for fish stock assessment at Fisheries and Marine Institute of Memorial University of Newfoundland, 2020 - present
- Developer - developing full stack applications. Highlights of projects include:
 - ◆ EzEz is an IOS application to assist small business managers on their daily tasks. I also built an automated pipeline to simulate user and operational data, extract, load, transformed the data to AWS S3, RedShift and QuickSight for analytics tasks (GitHub: https://github.com/nlbuilder/ezez_backend_dev/blob/master/README.md)
 - ◆ MediSync AI is a solution enables medical professionals with no technical background to interact with large medical datasets using natural language processing and vector databases (demo: www.youtube.com/watch?v=OE2VGkUw9dQ)

EDUCATION

Graduate student in Quantitative fisheries modelling Marine Institute of Memorial University of Newfoundland, Canada	Graduation April - 2025
Master of Applied Science in Marine Environment with Honors University of Tasmania, Australia	Jun. 2016 - Dec. 2018
Bachelor of Biotechnology Nha Trang University, Vietnam	Sep. 2002 - Jan. 2007

PREVIOUS EXPERIENCE

- Principal Researcher at Vietnam Sea-culture Association, 2019-2020
- Academic Tutor at the University of Tasmania, 2017-2018
- Analytics Official at Directorate of Fisheries of Vietnam, 2012-2016
- Secretariat at Southeast Asian Fisheries Development Center, 2014-2015
- Technical Staff at Institute of Vietnam Fisheries Economics and Planning, 2010-2012
- Junior Researcher at Institute of Marine Environment and Resources, 2008-2010

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 the Southeast Asian Fisheries Development Center, Dec 2014