

NGUYEN (HARLEY) TRAN

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EDUCATION

Johns Hopkins University, Baltimore, MD

Expected May 2024

- BS Computer Science, Economics, Minor in Entrepreneurship and Management
- GPA: 3.74/4.00 | Dean's List all semesters

Relevant Courses: Full-stack JavaScript, Object Oriented Software Engineering, Data Structure, Computer Science Innovation and Entrepreneurship, Artificial Intelligence, Computer System Fundamentals

SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C/C++, MATLAB, STATA

Technologies/Frameworks/Libraries: MongoDB, Express, React, NodeJS (MERN Stack), Git, HTML, CSS, Unix/Linux, Bootstrap, MantineUI, MUI, OAuth, Tailwind, Angular, PyTorch, TensorFlow

WORK EXPERIENCE

National University of Singapore, Computational Nanoelectronics Lab

Singapore

Research Assistant <Python, PyTorch>

April 2023 – Present

- Optimized an AI and IoT trajectory tracking model for aquaponic systems through self-supervised learning, enhancing accuracy and predictive capabilities
- Collected and classified 1000+ videos and images to train the model, ensuring a comprehensive dataset
- Leveraged Generative Adversarial Networks (GANs) to augment training data, boosting model's accuracy by 15%

Gartner Inc

Arlington, VA

Product Intern

May 2022 – Aug 2022

- Developed a foundational prototype for the Gartner KPI Diagnosis Algorithm by interviewing 20+ researchers
- Defined and piloted two solutions, reducing 20% of 1-1 inquiry waiting time, based on insights from 20+ interviews with clients and analysts
- Facilitated stakeholder communication, gathering feedback and ensuring alignment with the product team

PROJECTS

HopBox: Airbnb-like Storage WebApp <JavaScript, MongoDB, Express, React, NodeJS>

Grand Prize Winner @ Spark Accelerator 2023 by Johns Hopkins Tech Ventures (out of 52 ventures, \$3000)

- Developed a full-stack storage marketplace platform, leveraging MERN stack to store, fetch, and present storage data in an optimized end-to-end web application
- Leveraged MapBox API and PayPal API to design user-friendly interactive map and payment features
- Collaborated with UI/UX designer to create visually appealing and user-friendly interfaces using MantineUI, MUI, and Styled Components, translating wireframes into responsive frontend components

Out Of the Nest: Post-graduation Web Forum <JavaScript, MongoDB, Express, React, NodeJS >

- Led a team of 5 to develop a web application for exchanging career experiences within college network, featuring forum functionalities: login, post, delete, edit, comments, like, and advanced search and filter capabilities
- Leveraged FindWork API to provide job recommendations and incorporated ChatGPT to deliver personalized career suggestions, enhancing user engagement and guidance
- Implemented Continuous Integration and Continuous Deployment (CI/CD) for rapid and efficient delivery of updates

Pomodoro Flashcard Study WebApp <JavaScript, MongoDB, Express, React, NodeJS >

- Developed a full-stack Pomodoro flashcard study web application with custom deck management and essential features such as flashcard input, viewing, and flipping functionalities
- Integrated Pomodoro technique, ensuring effective study through timed intervals for focused learning

Fully Functional Chess Game <C++>

- Designed and developed a complete chess game, incorporating all essential gameplay features such as checkmate conditions, check validations, and comprehensive game rules

OTHER EXTRACURRICULAR ACTIVITIES

Johns Hopkins Product Management Club, Project Lead

Jan 2022–Present

Johns Hopkins Vietnamese Student Association, President

Aug 2021–Present

Emerald Consulting Group, Founding Tech Consultant

Jan 2022–Dec 2022