NHAT M. NGUYEN

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Analytical and critical thinker with experience in software engineering. Expertise in end-to-end DevOps and deploying full-stack solutions for complex requirements to drive technology projects forward. Passionate about building clean, scalable, and UX-friendly experiences.

EDUCATION

University of Texas at Dallas, *Richardson, TX*
Bachelor of Engineering, *2023* | *Major*: Software Engineering
- *Core Courses:* AI, Machine Learning, Advance Algorithm, Operating System, Requirement Engineer, Database

Dallas College Richland Campus, *Dallas, TX*
Bachelor of Science, *2019 – 2021 (transferred)* | *Major*: Computer Science

TECHNICAL SKILLS

Languages: HTML/CSS, Bootstrap, Python, Dart, Tailwind
JavaScript stack: *Superset:* TypeScript | *FE Framework:* React.js, Flutter | *Back-end:* Node.js, Express.js
Databases & Infrastructure: *SQL*: MySQL, PostgreSQL
Design & Wireframing: Adobe Photoshop & Premiere, Figma
Project Management: Microsoft Project, Github, GitLab, JIRA, Visual Studio Code

PROFESSIONAL EXPERIENCE

National Circuit Assembly — *Garland, TX*
Software Engineer (Intern) — *Jun 2022 – Sep 2022*
- Supported the application development of an operational workflow management tool for workers in a factory that produced electrical boards to increase operational efficiency by 40%, by redesigning the user interface using Bootstrap and Visual Studio Code, and improving the algorithm logic using PHP Laravel, MySQL Workbench and Data Tables.
- Coded on CSS and JavaScript prioritized user stories to develop new functionality and capabilities for a variety of front and back-end product releases to increase technical performance and user experience through developing in an Agile DevOps process.
- Created a workflow to identify, report, fix, and test bugs on the Product Web Application, including redundant or ineffective features, leading to fixing 15+ critical bugs over four months through collaboration with two engineers for issues on CSS and JavaScript.

PROJECT & VOLUNTEER EXPERIENCE

Scene Recognition [https://github.com/onionNguyen/Scene_Regconition] | University of Texas at Dallas: Machine Learning *Mar 2023 – Apr 2023*
Purpose: A deep learning project leveraging Deep Neural Network (DNN) to classify images on a dataset of scenes with a variety of business applications, such as automation of content moderation by flagging content that violates terms of services, improvement of user experience in image search, and others.
Tools & Technology:
- DNN model implemented with Python and OpenCV with numpy, pandas, scikit-learn, and matplotlib libraries.
- Trained and evaluated the model using RMSE as the loss function and accuracy as the metric.
- Hyperparameter experimentation included learning rate, hidden layers, and batch size.

Library Management [https://lms-ui-service-hdzl5gs7hq-vp.a.run.app] | University of Texas at Dallas: Databases *Oct 2022 – Dec 2022*
Purpose: An information system for libraries that manages asset circulation, cataloging, and memberships, through automation of essential housekeeping functions including book search, inventory management such as addition of new books and check-in-and-out, membership loans and fines, and others. System performance demonstrated a 25% improvement in order transaction time and a 15% reduction in reporting errors.
Tools & Technology:
- Front end development on Tailwind, React for the GUI of the website.
- Human-centered design principals for usability tests and enhanced user experience.

Intelligent Cart [https://github.com/onionNguyen/Intelligent-Cart] | University of Texas at Dallas: Software Engineering *Mar 2021 – May 2021*
Purpose: A recommendation engine on a nutrition site that suggests products based on the customer's preferences and nutritional needs.
Tools & Technology:
- Frontend development for four web pages on React and Bootstrap and backend development on Python.
- Dynamic recommendation system built on Python and a neural network.

Leadership:
Youth Leader, Vietnamese Eucharist Youth Movement, *Aug 2017 – Present*