

I am a fresh graduate especially interested in building mobile applications with a smooth user interface, analyzing complex datasets to derive insights, and building machine learning models for classification.

Work Experience

Research Student	Nguyen Tien Huy, Online Research Club Nagasaki, Japan	Mar 2023–Present
<ul style="list-style-type: none">Screening articles to extract questionnaires and surveys and collecting dataSystematic reviews and original studiesContacting authors across the globe for collaborations		

Projects

- Machine Learning Project - Prediction of Breast Cancer Malignancy**
 - Dataset Exploration to visualize data distributions, identify patterns, and assess correlations among variables.
 - Data Preprocessing: Cleaned and preprocessed raw data, handling missing and null values.
 - Data Visualization: Created insightful visualizations using various tools to illustrate key insights.
 - Model Development: Employed tree-based models and SVM to build predictive models.
 - PCA for dimensionality reduction then applied unsupervised Learning (Clustering).
 - Hyperparameter Tuning: Optimized model performance by fine-tuning hyperparameters using grid search
- Mobile App Development Project - Lunchbox Generator:** The app allows users to generate an assortment of lunch items based on their dietary preferences, including lactose-free, gluten-free, vegan, and vegetarian options.
 - Designed and developed the user interface for a responsive and intuitive experience across different screen sizes and orientations.
 - Implemented database management using SQLite to store and retrieve food items based on user preferences.
 - Integrated email sending functionality using Android intents to enable users to provide feedback directly from the app.
 - Ensured internationalization and localization support by implementing language-specific strings and view layouts for English, Spanish, and Arabic.
 - Utilized Google Material Library components for a modern and consistent design throughout the app.
 - Utilized Flutter for cross-platform compatibility and Firebase (authentication and firestore)
- Database Project - Toy store Database**
 - Constructing an ER model and a database schema of the system (attributes and entities)
 - Translating the ER-diagram into relational schemas
 - Building the database on the Oracle Server
 - Normalizing the database up to the BCNF Normal Form.
- Web Development Project - Recyclables Pickup Website:** Developed a website to facilitate the pickup of recyclable materials. Users can select pickup types and provide details, while administrators have the ability to approve pickups and manage the actual pickup process.
 - Designed and developed the front-end user interface using HTML, CSS, and JavaScript
 - Implemented back-end functionality using PHP and SQL to store and manage pickup requests, approval status, and pickup process details
 - Integrated WampServer's phpMyAdmin and MYSQL database for data storage and retrieval, ensuring data integrity and security.

Technologies and Languages

- Languages: Java, Python, R, SQL, Dart
- Web Development: HTML, CSS, Java Script, PHP, PHP My Admin, Wamp Server, Ajax, MySQL, Bootstrap, JQuery
- Mobile App Development: Android, Java, Material Design UI, SQLite, Flutter, Dart, Firebase Firestore, FirebaseAuth, NoSQL
- Database Management: SQL, Oracle, MySQL, SQLite
- Data Analysis: Python, Spyder, R, R studio, Tableau, Excel, Jupyter Notebook, SQL

Education and Certifications

- **B.Sc. Bioinformatics with a Minor in Computer Science**, Lebanese American University **2020–2024**
- **Google Data Analytics Certificate** - Google through Coursera
 - Gaining an immersive understanding of the practices and processes used by a junior or associate data analyst in their day-to-day job
 - Learning key analytical skills (data cleaning, analysis, & visualization) and tools (spreadsheets, SQL, R programming, Tableau)
 - Understanding how to clean and organize data for analysis, and complete analysis and calculations using spreadsheets, SQL and R programming
 - Learning how to visualize and present data findings in dashboards, presentations and commonly used visualization platforms

Volunteer Work

- **Newsletter Writer (All Girls Code)**
- **Historical Document Transcriber (Smithsonian Museum Digital Transcription Centre)** - Transcribing handwritten historical documents into digital formats
- **Chemistry Article Writer (Chemtalk)** - Explaining complex chemistry level chemistry concepts
- **Disaster Relief Volunteer (DSC)** - Assisting in blood drives and fundraisers
- **Coordinator (MMKN)** - Tracking student and tutor attendance
- **Biology Tutor (MMKN)** - Tutoring public school eighth graders

Interests

- Animal lover - I have a cat of my own.
- Avid reader - I have read most fiction and fantasy novels worth reading.
- Art enthusiast - graphite sketching, light and shadow, portraiture, watercolor, crochet, embroidery, clay sculpting, in addition to deep knowledge of art history and analysis.