HO HUU AN

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WORKING EXPERIENCE

FamiSoft Digital Technology Company Limited **Ho Chi Minh City, Vietnam**
Software engineer *3/2025 - Present*

- **Research and Development**: Integrating app in SquareUp, QuickBooks, 3D viewer, Virtual Try-On
- **Build LLM sales chatbot:** Using nextjs, fastapi, pgvector, and fuction calling (RAG pipeline)
- **Financial profession:** Domain knowledge about warehouse, receipt/payment, cashbook, credit/debit, bankstatement, journal voucher, debt customer, debt supplier, good issue note, good reciept note, stock taking
- **Business Analyst:** discuss with clients to define their demands, analyze problems, demonstrate products

EDUCATION

Ton Duc Thang University **Ho Chi Minh City, Vietnam**
Bachelor's of Science, Computer Science *Graduation, October 2025*

- **GPA:** 8.81/10
- **Concentrations:** AI Engineer, Data Engineer, Web Development
- **Achievement:** 4 scholarships for academic excellence

PROJECTS

Robinson Pharmacy ERP *FamiSoft, 2025*

- **Description:** Developed a web & mobile ERP system to manage all facets of pharmaceutical warehouse operations: raw material and drug item tracking, logical rack/warehouse layout management, vendor management, stock movements (pick, move), sample adjustments, destruction, loss and damage reporting.
- **Team size:** 6
- **My position:** Developer
- **Technologies used:** Angular, KendoUI ASP.NET MVC .NET Core, React Native, SQL Server

LinhKimDuyen *FamiSoft, 2025*

- **Description:** Built an interactive 3D product viewer and virtual try-on system, plus an AI shopping assistant that uses a prompt system and function-calling to consult on products, show shop widgets (e.g. gold price), find products by image, and generate product descriptions.
- **Team size:** 4
- **My position:** Developer
- **Technologies used:** Next.js , FastAPI , pgvector, OpenAI, Gemini, AWS S3, EC2

FamiSoft Production *FamiSoft, 2025*

- **Description:** Developed an end-to-end CRM & ERP platform covering POS, warehouse & inventory management, accounting, retailer management, order processing, business reporting and etc. Implemented AI features for automated statistics, sales analysis and actionable insights (dashboards, forecasts, anomaly detection) and integrated the system with external services for payments and data sync.
- **Team size:** 8
- **My position:** Developer
- **Technologies used:** React.js + Vite, MongoDB, PostgreSQL, Node.js, Redis

Diabetes Prediction with Tabular Data Classification - *Freelance Project* *July, 2025*

- **Description**: Built a regression-based ML pipeline to estimate blood sugar levels from questionnaire responses and basic physiological metrics, enabling low-cost, non-invasive diabetes screening.
- **Team size**: 2
- **Responsibilities**:
  - • Collected and cleaned medical survey data from Google Sheets and OCR survey form
  - • Preprocessed categorical and binary features with one-hot encoding; normalized continuous variables using RobustScaler.
  - • Handled skewed glucose distribution using log transformation: $y' = \ln(1 + y)$, reversed by $y = e^{y'} - 1$
  - • Applied ADASYN oversampling to balance class distribution between diabetic and non-diabetic samples.
  - • Trained 10+ models (Linear, Ridge, Lasso, SVR, RF, AdaBoost, MLP, etc.), tuned via RandomizedSearchCV.
  - • Visualized results using residual plots, prediction-vs-actual charts, and correlation heatmaps.
- **Technologies used**: Python, Pandas, Scikit-learn, OCR, SVR, ADASYN, RobustScaler, Matplotlib, Seaborn, Flask

Project Massive Dataset - *Academic Project* | **Github**

- **Clustering with k-Means**: Implemented k-Means clustering on the MNIST dataset using PySpark, applying a custom weighting scheme for specific data points. Visualized average distances to centroids using bar charts. **Dimensionality Reduction with SVD**: Utilized Singular Value Decomposition (SVD) to reduce the dimensionality of MNIST image data from 784 to 3. Visualized clustered data distribution in 3D space using matplotlib.
- **Collaborative Filtering for Recommendations**: Developed a recommendation system using the Alternating Least Squares (ALS) algorithm on product ratings data. Evaluated model performance through Mean Squared Error (MSE) metrics and visualized the correlation between MSE and user similarity.
- **Stock Price Prediction**: Implemented a linear regression model to predict stock price fluctuations based on historical data. Created features representing the fluctuation ranges of previous days and evaluated model performance with MSE metrics, visualizing results with matplotlib.
- **Multi-class Classification**: Conducted multi-class classification on the MNIST dataset using various classifiers (Multi-layer Perceptron, Random Forest, Linear Support Vector Machine). Compared model accuracies in training and test sets, presenting results through twin-bar charts.

SKILLS

- **Programming Languages:** C/C++, Python, JavaScript, SQL, Java, C#, TypeScript
- **WebApp Development:** HTML/CSS, JavaScript, React.js, Node.js, Next.js, .Net, FastAPI, Flutter
- **Database Management:** MySQL, PostgreSQL, MongoDB, SQL SERVER
- **ML/AI Technologies:** Scikit-learn, XGBoost, TensorFlow, OpenCV, Pandas, NumPy, LangChain, LangGraph, OpenAI API, LLM Agents, ChatGPT Integration, OCR (Tesseract, EasyOCR)
- **DevOps & Cloud:** Git, Github Action, Docker, AWS(EC2/S3/Lambda)
- **Soft Skills:** Critical thinking, communication, research-driven, self-learning, scientific paper reading

CERTIFICATIONS

- APTIS: 178/200