

VU NGUYEN LE (LOUIS LE)

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SUMMARY

AI-focused Full-stack software engineer (UCL, BSc CS 2028) with **TypeScript/React, Tailwind, Supabase** experience, **shipping high-impact MVPs** and ML pipelines (**Facenet512, RetinaFace, RF, SVM**). **Lovable Hackathon winner (1/25+ teams)** for a multi stage fact checking agent; built a **<5s facerecognition data pipeline** and scalable backends with **Convex/Deno Edge**. **Eager to leverage skills** in web development to create **scalable** and **user-friendly web apps**.

PROJECTS

- Grounded - AI Fact-Checking Platform | 1st Place Winner, Lovable Hackathon | [Github](#) Oct 2025 - Oct 2025**
- **Won out of 25+ teams**; engineered a multi-stage prompt chain with **Perplexity's Sonar Pro Model** to recursively trace claims through citation hierarchies, **analysing 6+ sources per query**.
 - Built a full-stack serverless application using **React/TypeScript, Supabase** (PostgreSQL), and **Deno Edge Functions**, with an interactive source-tree visualisation using **ReactFlow**.
- Dex - Live Facial Recognition for Networking | 6th Place Winner, Cursor London Evening Hack | [Github](#) Nov 2025 - Nov 2025**
- Developed a **real-time facial recognition data pipeline** to identify event attendees and surface their LinkedIn profile data in **<5 seconds**.
 - Built a **Chrome extension** to scrape Luma for **70+ attendees' LinkedIn URLs**, then **scraped ALL LinkedIn profiles** and stored the query in a **Convex DB**; implemented **Facenet512** and **RetinaFace** for recognition.
- Homiq - AI-Powered Property Search Engine | Perplexity API, TypeScript, Supabase | [Github](#) Sep 2025 - Sep 2025**
- Developed an intuitive property search tool using **Perplexity's Sonar Pro Model** to provide dynamic, context-aware research on **5+ personal criteria** (e.g., safety, schools, amenities).
 - Designed an interactive, infinite canvas UI displaying insights as modular widgets, **reducing property research time** from **hours to minutes**.

PROFESSIONAL EXPERIENCE

- HTP Pharma Technology Intern Jul 2025 - Sep 2025**
Ho Chi Minh City, Vietnam
- Engineered an automation pipeline using **Google Apps Script** and the **Zalo API** to process **1000+** customer-service interactions for an August sales campaign.
 - Developed a backend script to **automate daily KPI tracking of 40 staff**, pulling data automatically from CRM software to replace manual entry.
 - Built **2 custom GPTs** on OpenAI's platform, **queried over 200+ times** by staff for complex product questions, generating structured, scientifically accurate marketing copy.
 - **Facilitated 3 AI-awareness training sessions** for HR and Customer Service departments on **leveraging AI tools for business use-cases**.

RESEARCH MANUSCRIPTS

- **ML: Cancer Subtype Classification | Python, R, Scikit-learn, Pandas, NumPy**. Random Forest and Radial Basis Function Support Vector Machine for Classifying Acute Myeloid Leukemia Subtypes. Developed and benchmarked **Random Forest** and **RBF-SVM** models to classify Acute Myeloid Leukaemia subtypes from high-dimensional gene expression data. Employed **LASSO** to reduce dimensionality, **SMOTE** to address moderate class imbalance, and **10-fold cross-validation** for hyperparameter tuning. The tuned **RBF-SVM** model achieved a final classification accuracy of **82%**, outperforming the **baseline RF model** in the minority class recognition.
- **ML: Comparative Sentiment Analysis of Financial News | Python, Keras, Scikit-learn, NLTK**. How does the performance of a Bidirectional LSTM neural network compare to that of a LinearSVC in terms of classification accuracy, precision, recall, and F1 Score when analysing sentiments in financial news?. Implemented and compared a **Bidirectional LSTM** (Keras) and a **LinearSVC** model (Scikit-Learn) for sentiment classification on a corpus of **4,846 financial headlines**. The **LinearSVC** achieved a final **F1 Score of 0.74**, outperforming the **Bi-LSTM**, which showed clear signs of overfitting after 3 epochs.

EDUCATION

- University College London (UCL) Jun 2028**
BSc, Computer Science London, United Kingdom
- **Achievements:** Nexus Labs Officer - UCL AI Society (Largest student-led AI research lab in UK)
- British International School HCMC Aug 2021 - May 2025**
IBDP & IGCSE Ho Chi Minh City, Vietnam
- **GPA:** International Baccalaureate (IB) Diploma, Score: 43/45

TECHNICAL SKILLS

- **Languages:** Python, R, TypeScript, C, SQL, HTML, Tailwind CSS, Google Apps Script, JavaScript
- **Backend & DB:** Supabase, Convex, Deno Edge Functions, PostgreSQL
- **Technology & Cloud:** Flask, FastAPI, Facenet512, RetinaFace, TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Git

AWARDS

- **F1 in Schools World Finals 2024: Represented Vietnam** and personally secured a full software sponsorship from **ANSYS** for the team's use of ANSYS Fluent.
- **Silver Scholar - International Logic Olympiad 2024 (Top 10%), Stanford University:**
- **Distinction - Perse Coding Team Challenge, The Perse School:**
- **2x Computer Science Student of the Year & CS Subject Ambassador, BISHCMC:**