

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	Jul 2025 - Sep 2025
<i>Technology Intern</i>	<i>Ho Chi Minh City, Vietnam</i>
• 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
<i>BSc, Computer Science</i>	<i>London, United Kingdom</i>
• Achievements: Nexus Labs Officer - UCL AI Society (Largest student-led AI research lab in UK)	
British International School HCMC	Aug 2021 - May 2025
<i>IBDP & IGCSE</i>	<i>Ho Chi Minh City, Vietnam</i>
• 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:**