Tuan (**Kevin**) Le

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EDUCATION

Washington University in St. Louis

BS/MS in Computer Science *Expected May 2026*

Coursework: Software Engineering Workshop, Deep Neural Network Research, Intro to Operating System, Object-Oriented Software Development, Web Development

Involvement: Robotics Club (Ros2, CAD, 3D printing)

SKILLS

Programming Languages: Python, JavaScript, Java, SwiftUI, C++, Go, Rust

Machine Learning & AI: TensorFlow, PyTorch, scikit-learn, Keras, HF

Data Engineering: ETL processes, Apache Spark, Kafka, and databases (MySQL, PostgreSQL, MongoDB)

Full-Stack Development: React.js, Angular, Vue.js, Node.js, Express, Django, Docker, Kubernetes, Git, Linux, NumPy,

Tools: Microsoft Word (for reports and proposals), Powerpoint (for research presentations), Excel (for data tracking)

EXPERIENCE

Machine Learning Engineer Intern | VANDERBILT UNIVERSITY *May 2023 - Aug 2023*

- Integrated TensorFlow-based language models, boosting ML pipeline efficiency by 20%.
- Optimized PyTorch algorithms for hidden layer extraction, enhancing model performance by 15%.
- Automated model training workflows, improving pipeline reliability and reducing runtime by 30%.

IOS App Development Intern | IMT SOLUTIONS *May 2022 - Aug 2022*

- Delivered 4 new iOS features using Swift, improving app functionality and user satisfaction.
- Increased API response speed by 10% through optimized RESTful API integration with Node.js.
- Refactored legacy code to MVC, enhancing maintainability by 25% and resolving memory leaks.

AI Recommendation System Developer | DEPAUW UNIVERSITY *Jan 2024 – Apr 2024*

- Built a sequential deep neural network, achieving 90% prediction accuracy using structured datasets with NumPy.
- Developed a data-gathering pipeline with Python and Polars, enriching datasets and improving model performance.
- Deployed the recommendation model to a web platform using Angular, Flask, Docker, and REST APIs, enabling seamless real-time predictions.

Teaching Assistant | Washington University in St Louis *Jan 2025 - May 2025*

- Explained algorithm paradigms (greedy, DP), Big-O analysis, & ML fairness/bias concepts weekly to 20+ students.
- Created 4 assignments on algorithm design/proofs, complexity analysis, fairness metrics & model auditing (SHAP/LIME).
- Evaluated 400+ assignments on algorithm proofs, efficiency, fairness metrics, and bias mitigation strategies.
- Mentored students on advanced algorithms (P vs NP, NP-completeness) & responsible AI topics.

PROJECT

Meet in the Middle | Independent Project *Jan 2025 - Present*

- Designed a dynamic backend with Supabase and PostgreSQL, handling real-time data sync and user interactions.
- Developed a responsive React Native frontend using NativeWind, ensuring seamless cross-platform performance.
- Integrated Google Maps API for personalized trip planning based on location data.
- Implemented Supabase Realtime and Socket.IO for real-time collaboration, enhancing engagement by 30%.

Project Board Website with Real-Time Collaboration | Independent *Sept 2024 - Present*

- Built a full-stack platform with React, Django, and MongoDB, enabling project sharing for 500+ users.
- Implemented interactive task management, achieving 95% task completion rates during testing.
- Enhanced collaboration with real-time chat and calendar tools using Socket.IO, increasing engagement by 30%.

Full-Stack Web Application | Independent Project *Sep 2024 - Present*

- Built a dynamic backend with Firebase Firestore, managing 1,000+ documents across nested collections, enabling Designed a scalable backend with Firebase Firestore, managing 1,000+ documents across nested collections.
- Improved UI responsiveness by 45% using Material-UI and optimized data handling via Firebase's async API.
- Secured the application with Firebase Authentication and Firestore rules, ensuring GDPR-compliant user privacy.