

KaLong Wan

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Available: May 2026 - Jan 2027 | [\[Github\]](#) | [\[Personal Website\]](#)

EDUCATION

Northeastern University, Silicon Valley

Master of Science in Computer Science

San Jose, CA

Expected Graduation: June 2027

- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Networking Fundamentals, Multimedia Networking, Databases, Machine Learning, Computer Architecture, Enterprise Software Engineering, Algorithm Abstraction

University of California, Davis

Bachelor of Animal Science

Davis, CA

Graduation: June 2024

- **Relevant Coursework:** Animal Behavior, Animal Nutrition, Wildlife Ecology, Research Methods in Animal Science, Biostatistics

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL

Frameworks and Libraries: React, Redux, Node.js, FastAPI, Fastify, Flask, PyTorch, TensorFlow, pandas, NumPy, scikit-learn

Tools and Platforms: Git, AWS, GCP, Docker, Kubernetes, SLURM, Prometheus, Grafana

Databases: PostgreSQL, Oracle SQL, Snowflake, MongoDB, Redis

PROJECTS

Animal Classification - [\[GitHub\]](#)

Nov 2025 - Dec 2025

- Built a convolutional neural network (CNN) to classify animal species using image datasets.
- Preprocessed and organized large image datasets; trained and evaluated models using Python and deep learning frameworks.
- Improved model accuracy from 62% to 74% through dataset cleaning, augmentation, and class balancing.

Pet Health Risk Predictor - [\[GitHub\]](#)

Dec 2025 - Jan 2026

- Developed a full-stack web application to assess pet health risks based on user-provided data.
- Built a FastAPI backend with Pydantic schemas for input validation and structured API responses.
- Increased CNN test accuracy from 62% to 74% through dataset preprocessing and class balancing.

KV Chat (WebSocket LLM with KV Cache) - [\[GitHub\]](#)

Nov 2025 - Dec 2025

- Designed and implemented RESTful API endpoints for CRUD operations.
- Integrated dependency injection for modular and maintainable code.
- Supported JSON data exchange with MongoDB backend.
- Included authentication and input validation to enhance security.

Micro-LMS (Learning Management System) - [\[GitHub\]](#)

Jan 2025 - Present

- Built a full-stack learning management system supporting courses, enrollments, assignments, submissions, and grading workflows.
- Developed REST APIs using FastAPI, SQLAlchemy, and Alembic, implementing authentication and role-based access for instructors and students.
- Designed dashboards and submission workflows to track assignments, grades, and course progress.

EXPERIENCE

Vet Assistance

VCA Winchester Animal Hospital

Aug 2024-Jul 2025

San Jose, CA

- Assisted with medical exams, treatments, and animal handling.
- Provided daily patient care and maintained clinical sanitation.
- Communicated with clients and completed basic administrative tasks.

