

# KaLong Wan

[wan.kal@northeastern.edu](mailto:wan.kal@northeastern.edu) | +1(323)381-9313 | San Jose, CA | [[Linkedin](#)]

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

## EDUCATION

---

### Northeastern University, Silicon Valley

San Jose, CA

Master of Science in Computer Science

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

Davis, CA

Bachelor of Animal Science

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

---

### Web Scraper

Jan 2025 - Feb 2025

- Developed a script to fetch and parse data from target websites, storing results into CSV/Database.
- Implemented error handling and user-agent rotation to avoid scraping blocks.
- Reduced manual competitor research time from 4 hours/day to 15 minutes, enabling faster decision-making.

### Grade System

Nov 2025 - Dec 2025

- Built an efficient backtracking algorithm to solve Sudoku puzzles of various difficulties.
- Enhanced performance using heuristics such as “minimum remaining values” strategy.
- Delivered instant solutions, reinforcing logic-based problem solving and algorithmic thinking.

### REST API Projects

Apr 2025 - Jun 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.

### Spring Boot Project

Jun 2025 - Present

- Built a full-stack delivery management application with customer, inventory, and order management features.
- Implemented user authentication and role-based access control for secure operations.
- Integrated MySQL database using Spring Data JPA for efficient data persistence.
- Designed MVC architecture with separate Controller, Service, and Repository layers to improve maintainability.

## EXPERIENCE

---

### Vet Assistance

Aug 2024-Jul 2025

VCA Winchester Animal Hospital

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.

