

# Vincent Tran

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## EDUCATION

<b>University of Oklahoma</b> <i>Master's of Science in Computer Science</i>	Norman, OK Aug. 2025 – May 2026
<b>University of Oklahoma</b> <i>Bachelor of Science in Computer Science, Minor in Mathematics</i>	Norman, OK Aug. 2022 – May 2025

## EXPERIENCE

<b>ML Graduate Research Assistant</b> <i>University of Oklahoma</i>	Aug. 2025 – Present Norman, OK
<ul style="list-style-type: none"><li>Designed, deployed, and maintained <b>3 production-grade backend services</b> using Django, Python, and SQL on AWS to ingest, validate, and enrich structured datasets</li><li>Built <b>end-to-end data pipelines</b> generating 50K+ synthetic samples to fine-tune a sequence-to-sequence LLM, improving model generalization</li><li>Implemented authentication, role-based access control, and API contracts to support multi-user workflows</li><li>Wrote <b>unit and integration tests</b> to ensure correctness and reliability across data ingestion and endpoints</li><li>Improved system scalability and productivity by <b>50%</b> by replacing manual workflows with internal web services</li></ul>	
<b>Software Development Intern</b> <i>Paycom</i>	May 2025 – Aug. 2025 Oklahoma City, OK
<ul style="list-style-type: none"><li>Built and deployed a <b>production recommendation service</b> using FastAPI, Docker, and Kubernetes, increasing user engagement by <b>13%</b></li><li>Designed and maintained an <b>end-to-end ETL pipeline</b> to retrain ML models on fresh data, sustaining a <b>81% minimum relevance rate</b></li><li>Implemented CI/CD pipelines with automated testing and containerized deployments, reducing developer overhead by <b>2+ hours/week</b></li><li>Developed and evaluated ML solutions (scikit-learn, PyTorch) contributing to a data-driven business value report</li></ul>	
<b>Software Undergraduate Research Assistant</b> <i>University of Oklahoma</i>	May 2023 – May 2025 Norman, OK
<ul style="list-style-type: none"><li>Developed and maintained a backend analytics service using Python, Django, PostgreSQL, and NLP models, improving processing speed by <b>25%</b></li><li>Designed a <b>microservice-based backend architecture</b>, improving scalability and security by <b>30%</b></li><li>Optimized caching and query strategies, reducing API calls by <b>60%</b>, runtime by <b>20%</b>, and cloud costs by <b>30%</b></li></ul>	
<b>Software Development Intern</b> <i>Paycom</i>	May 2024 – Aug. 2024 Oklahoma City, OK
<ul style="list-style-type: none"><li>Designed and implemented a SQL sharding strategy to distribute <b>100K+ records</b> and handle traffic spikes</li><li>Deployed a full-stack web application with a React SPA and PHP MVC backend using asynchronous REST APIs</li><li>Collaborated in agile sprints to build a C# backend REST API for an applicant tracking system</li></ul>	

## PROJECTS

<b>wildloop</b>   <i>Python, Django Ninja, PyTorch, PostgreSQL, Nginx, React</i>	Aug. 2025
<ul style="list-style-type: none"><li>Built a <b>production full-stack platform</b> for species recognition from user-uploaded images, audio, and video, improving data accessibility by <b>60%</b></li><li>Designed and owned an <b>end-to-end backend system</b> supporting real user traffic with authentication and testing</li><li>Deployed ML inference services behind a REST API with Nginx, reducing average prediction latency by <b>35%</b></li><li>Implemented unit and integration tests and decoupled services to enable independent scaling and improve reliability</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, SQL (PostgreSQL, MySQL), JavaScript, Java, C++, PHP, HTML/CSS

**Backend & APIs:** Django, Django Ninja, FastAPI, Flask, Node.js, REST APIs

**Cloud & Infrastructure:** AWS, Docker, Nginx, Firebase, Google Cloud Platform, DigitalOcean, Cloudflare

**Frontend:** React

**Developer Tools:** Git, GitHub, GitLab, CI/CD, Jira, Figma