

Teddy Luu

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EDUCATION

University of South Florida - Bachelor of Science in Computer Science

2019 – 2024

Coursework: Operating Systems, Database Design, Computer Architecture, Cyber Security, Automata Theory, AI, Discrete Structures

EXPERIENCE

Venera AI

Aug 2024 – Present

Software Engineer - AI Platform

- Developing and launched an AI health-monitoring agent for **100K+ elderly patients**, reducing manual follow-up workload by **20%** through the automation of daily health check-ins and alert generation using **React**, **Next.js**, **OpenAI API**, and **PyTorch**.
- Drove a **10%** increase in active user engagement by implementing core AI chatbot features including **prompt suggestions**, **speech-to-text**, **file uploads**, **authentication**, **token tracking**, and **chat history** using **React** and **TypeScript**.
- Architected a scalable UI system using **Next.js**, **Tailwind CSS**, and **Radix UI**, building reusable components for user authentication, token dashboards, and speech workflows to maintain design consistency and accelerate feature delivery.
- Accelerated the global launch of the **Venera AI** platform, achieving **sub-second load times** and a **95+ Lighthouse score**

Pfizer

Feb 2026 – Apr 2026

Software Engineer Extern

- Engineered automated OCR pipeline (**Python**, **Tesseract**, **PaddleOCR**) to extract structured fields (medication dosage, expiry dates, dose-compliance values) from pharmaceutical compliance documents, reducing manual processing time **25%** & mitigating bottlenecks.
- Architected a **LlamaIndex** and **Mistral** RAG pipeline to analyze pharmaceutical compliance documents, optimizing vector retrieval to accelerate critical queries and proactively prevent shipment delays.
- Delivered an end-to-end document intelligence platform with a **Streamlit** frontend, integrating OCR and RAG pipelines to automate healthcare supply workflows and reduce evaluation time by **15%**.

Fundy.asia

Jun 2024 – Aug 2024

Software Engineering Intern

- Reduced dashboard initial load time by **30%** for **1,000+ users** by developing modular **React** components and **TypeScript** hooks for real-time cashback tracking and optimizing client-side rendering.
- Reduced manual reconciliation time by **25%** by building secure **FastAPI** APIs to validate transactions & cashback calculations
- Cut feature integration time by **2 weeks** by streamlining **backend-to-frontend data flows** & synchronizing **React** application state.

Advancing Machine and Human Reasoning Lab

Aug 2023 – Dec 2023

Undergraduate Researcher

- Reduced research data preparation time by **40%** developing automated **Python (Pandas)** pipelines to normalize player actions, detect behavioral strategies, and extract temporal features from gameplay datasets.
- Accelerated behavioral modeling experiments by implementing a reproducible **Python (Pandas, NumPy, scikit-learn)** and **Jupyter** workflow to evaluate psychometric models against modern **AI/LLM** approaches

Baidu USA

Jun 2022 – Aug 2022

Software Engineering Intern

- Enabled data-driven **AI accelerator licensing decisions** for Baidu's autonomous driving platform by benchmarking third-party processors and measuring **latency** and **TOPS** across vendor evaluation boards.
- Improved reliability of cross-vendor AI benchmarking by adapting internal inference pipelines to support both **PyTorch** and **Caffe** models on heterogeneous evaluation hardware.
- Accelerated AI chip evaluation for vendors including **Groq**, **Hailo**, and **Synopsys** by integrating their evaluation boards with Baidu's autonomous driving software stack and automating performance test workflows.

PROJECTS

Agentic Shopping Assistance @ Amazon Nova AI Hackathon | *Python, LangGraph, Amazon Nova, FastAPI, Next.js, Playwright*

- Led a team of 4 through 12 Agile iterations of a multi-agent AI shopping system that unified product discovery, review analysis, comparison, and validation into a personalized shopping experience.
- Implemented a **Bayesian + Wilson lower-bound ranking engine** in **Python** to generate reproducible product scores based on review volume and rating confidence, replacing inconsistent LLM-based ranking.
- Built a **RAG-based review intelligence pipeline** using **Chroma** and **AWS Bedrock Knowledge Bases** to retrieve cross-source review evidence and generate grounded product insights.

Crypto Trading Simulation App | *React Native, Expo, TypeScript, Redux Toolkit, Supabase, CoinGecko API*

- Engineered a cross-platform crypto paper-trading app using **React Native**, **Expo** and **TypeScript**, enabling 500+ simulated trades with real-time pricing via CoinGecko API integration.
- Implemented a virtual trading engine that updates holdings, cash balance, realized/unrealized **P&L**, and transaction history on each trade and price refresh, with portfolio state centralized in **Redux Toolkit**.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C#, JavaScript, TypeScript, HTML, CSS, MySQL, Bash, Swift, Go

Frameworks: React, Node.js, Flutter, Bootstrap, Angular, Express.js, FastAPI, React Native, Next.js, Spring Boot, .NET, Flask

Tools: LlamaIndex, Google AI Studio, Azure, AWS, Linux, Docker, Firebase Realtime, CI/CD, WebSocket, JUnit, Mockito, GraphQL

AI/ML: RAG, PyTorch, Pandas, TensorFlow, scikit-learn, Hugging Face, NumPy, OpenCV, Matlab