

DARREN TANG

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Software Engineer | Full Stack Engineer | AI Agent Engineer

EDUCATION

Santa Clara University

Master of Science in Computer Science and Engineering

Santa Clara, CA

September 2025 - June 2027

Relevant Coursework: Advanced Algorithms, Advanced Operating Systems, Data Mining, Object-Oriented Programming

University of Wisconsin-Madison

Bachelor of Science in Computer Science

Madison, WI

September 2021 - May 2025

Honors: Lumen Scholarship Fund Scholar, \$40,000 merit-based scholarship; Dean's List, Spring 2024

WORK EXPERIENCE

AI Agent Development Intern | Veracyte

San Francisco, CA

Building AI agents and workflow automations for business operations

June 2026 - Present

- Engineered a multi agent system for CRM work queue analysis, issue detection, record validation, and automated reporting, reducing QC review time by 50% and saving nearly 50 hours of manual work weekly.
- Built a proactive desktop AI agent using MCP integrations and RAG across 10 enterprise data sources to automate workflows, synthesize context, and support real time managerial decisions.
- Conducted requirements gathering and functional testing with end users across 8 automation initiatives, translating workflows into requirements and validating features before deployment.
- Built a Python solution for sensitive data detection with 99% accuracy, strengthening internal LLM security.

Artificial Intelligence Analyst | DataAnnotation

Fremont, CA

Evaluating LLMs, prompts, and tool use for model improvement

January 2026 - May 2026

- Built and maintained a scalable full-stack testbed (Rust, TS, C++) to evaluate LLM product features, enabling new AI tools.
- Containerized LLM agents and API workflows with Docker and deployed them through Kubernetes, testing tool execution, structured outputs, and reliability across automated tasks.
- Assessed 50+ LLM responses for factuality, relevance, and reasoning quality to support RLHF/fine-tuning pipelines.
- Ran A/B tests to compare LLM outputs across models, MCPs, and prompt variations, identifying best performing configurations.

Software Engineer Intern | Sonic Engineering

Union City, CA

Developing inventory software for CNC manufacturing.

May 2025 - August 2025

- Refined software workflows for CNC inventory management through iterative prototyping, improving tool lookup, material tracking, and tool life monitoring.
- Implemented a Java inventory service with Azure DevOps CI/CD and SQL to evaluate reorder thresholds, reducing manual inventory review time by 50%.
- Collaborated cross-functionally with engineers and CNC operators across the Software Development Life Cycle (SDLC) to translate product requirements into features, validate workflows, and refine designs for manufacturing constraints.
- Drove iterative delivery using an Agile Scrum framework, contributing to sprint planning, standups, and retros.

PROJECTS

SafeCall | ElevenLabs, WebSpatial VR by ByteDance, Spring Boot, RESTful Web Services

March 2026

VR training simulator for emergency response.

- Built an interactive Apple Vision Pro training platform using WebSpatial VR and ElevenLabs voice synthesis to translate emergency response procedures into guided scenarios for first responders at SCU Hackathon for Humanity 2026.
- Implemented RESTful Web Services with Spring Boot that managed emergency scenario progression and responder actions and used Test-Driven Development to validate workflow logic through unit testing and integration testing.

ExpenSense | AI Agent, OpenAI, OCR, Firebase, Firestore

December 2025

AI expense and receipt validation platform.

- Built a multi-agent reimbursement platform that used OpenAI and OCR to validate receipts, automate approvals, route exceptions, and persist expense and audit records in Firebase Firestore.
- Red-teamed 29 cases covering prompt injection, RBAC bypass, data poisoning, hallucinations, and unsafe tool use.

SKILLS

Languages: Java, Python, C, TypeScript, JavaScript, Structured Query Language (SQL), Dart, HTML, CSS

Technologies: React, Spring Boot, Next.js, Node.js, FastAPI, PostgreSQL, REST APIs, JUnit, pandas, NumPy

Tools: Azure DevOps, CRM, Docker, Kubernetes, Linux, Firebase Firestore, Vite, Git/GitHub, AWS, CI/CD, Agile

AI and ML: Salesforce Agentforce, Microsoft Copilot Studio, Claude Code, PyTorch, TensorFlow, LangChain, MCP, RAG