

# Dr. Emily Zhang

emily.zhang@email.com | (650) 555-0428 | Palo Alto, CA | [linkedin.com/in/emilyzhang](https://www.linkedin.com/in/emilyzhang) | [github.com/ezhang](https://github.com/ezhang)

## PROFESSIONAL SUMMARY

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Distinguished AI Engineering Architect with 12 years of experience leading AI transformation initiatives at scale. Architected and deployed 25+ production AI agent systems serving 100M+ users globally. Recognized expert in agentic AI architecture, having spoken at major AI conferences and published influential research. Proven track record of building high-performing teams and delivering business impact through innovative AI solutions.

## EXPERIENCE

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### Principal AI Architect / Head of AI Agents

*Salesforce | January 2022 - Present*

- Lead architecture and strategy for Salesforce AI Agent platform serving 150M+ users across Einstein GPT and Agentforce products
- Built team of 25+ AI engineers and researchers developing enterprise-grade autonomous agents
- Architected multi-agent orchestration system enabling complex business workflows with 95% reliability at scale
- Designed agent governance framework including safety guardrails, compliance controls, and audit trails
- Reduced customer service response time by 80% through intelligent routing and autonomous agent resolution
- Pioneered hybrid agent architecture combining symbolic reasoning with neural networks for explainable AI
- Established center of excellence for responsible AI development with ethics board and review processes
- Led integration of agents across Salesforce products (Sales Cloud, Service Cloud, Marketing Cloud)
- Filed 6 patents on agent architecture, tool orchestration, and adaptive learning systems

### Director of AI Engineering

*OpenAI | June 2018 - December 2021*

- Led engineering team building GPT-3 API and early ChatGPT prototypes
- Architected scalable inference infrastructure serving 1M+ API requests per day
- Developed safety systems for content moderation and prompt injection prevention
- Built developer tools and SDKs enabling thousands of companies to integrate LLMs
- Collaborated with research team on RLHF implementation and alignment techniques
- Managed partnerships with enterprise customers on custom fine-tuning and deployment

### Senior Engineering Manager

*Google | July 2014 - May 2018*

- Led Google Assistant AI team developing conversational agents for smart home and mobile
- Scaled conversation systems to support 500M+ devices across 30+ languages
- Built multi-modal agents integrating speech, vision, and text understanding
- Designed distributed training infrastructure for large-scale language models
- Mentored 15+ engineers and research scientists on ML system design

### Research Scientist

*DeepMind | August 2012 - June 2014*

- Conducted fundamental research on multi-agent reinforcement learning

- Published 5 papers in top-tier venues (NeurIPS, ICML, ICLR)
- Contributed to AlphaGo project on search algorithms and policy networks

## EDUCATION

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### Ph.D. in Artificial Intelligence - Stanford University

Dissertation: "Scalable Multi-Agent Reinforcement Learning Systems" | Published 8 papers | Graduated: 2014

### Master of Science in Computer Science - Stanford University

Graduated: 2012

### Bachelor of Science in Computer Science - Tsinghua University

Summa Cum Laude | Graduated: 2010

## TECHNICAL SKILLS

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**Programming Languages:** Python, C++, Go, TypeScript, Rust, Java, Scala

**AI/ML Frameworks:** PyTorch, TensorFlow, JAX, LangChain, LangGraph, LlamaIndex, AutoGen, Semantic Kernel, Ray, Horovod

**LLM Platforms:** OpenAI, Anthropic, Google Gemini, Cohere, Mistral, Together AI, Replicate

**Agent Frameworks:** n8n, AutoGPT, BabyAGI, CrewAI, AgentGPT, Superagent

**Infrastructure:** AWS, GCP, Azure, Kubernetes, Terraform, Istio, Ray Serve, Triton Inference Server

**Data Systems:** PostgreSQL, MongoDB, Redis, Kafka, Spark, Snowflake, Databricks

**Vector Databases:** Pinecone, Weaviate, Qdrant, Milvus, pgvector, Chroma

**ML Ops:** MLflow, Weights & Biases, LangSmith, Kubeflow, SageMaker, Vertex AI

**Architecture:** Microservices, Event-Driven Architecture, Distributed Systems, Real-time Processing

## PROJECTS

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### Enterprise Agent Orchestration Platform

Designed and built production-grade platform for deploying, monitoring, and managing AI agents at scale. Handles 10M+ agent executions daily with sub-second latency and 99.99% uptime.

## CERTIFICATIONS

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- AWS Certified Solutions Architect - Professional
- Google Cloud Professional Cloud Architect
- Certified Kubernetes Application Developer (CKAD)