

# Sarah Chen

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## EXPERIENCE

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**Senior Software Engineer — Search Infrastructure** July 2022 – Present

*Google – Mountain View, CA*

Architected a distributed caching layer for search index serving, reducing query latency by 45% for 8B+ daily requests  
Led a cross-functional team of 6 engineers to redesign the document ranking pipeline, improving search relevance metrics by 12%  
Developed automated canary analysis tooling that reduced production incident response time from 30 minutes to under 5 minutes

**Software Engineer — News Feed Ranking** June 2020 – June 2022

*Meta – Menlo Park, CA*

Implemented ML model serving infrastructure handling 2M+ predictions per second with 99.99% availability  
Built real-time feature pipelines using Apache Beam, processing 500TB of daily user interaction data  
Optimized feed ranking model inference, reducing serving costs by 30% while maintaining prediction quality

**Software Engineering Intern** May 2019 – Aug 2019

*Airbnb – San Francisco, CA*

Developed a pricing recommendation engine using gradient-boosted trees, increasing host adoption of suggested prices by 22%  
Built A/B testing framework components for the search ranking team, enabling faster experiment iteration

## EDUCATION

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**M.S. Computer Science — Artificial Intelligence** Sep 2020 – June 2022

*Stanford University*

*Stanford, CA*

**B.S. Computer Science, Minor in Mathematics** Sep 2016 – May 2020

*University of Michigan*

*Ann Arbor, MI*

## PROJECTS

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**NeuralSearch** | *Python, PyTorch, FAISS, FastAPI* Mar 2024 – Present

Built a semantic search engine using transformer embeddings and approximate nearest neighbor search over 10M+ documents  
Achieved 92% recall@10 with sub-50ms query latency through hybrid sparse-dense retrieval

**Terrabuild** | *Go, Terraform, AWS CDK* Oct 2023 – Feb 2024

Created an infrastructure-as-code orchestration tool that reduces cloud deployment time by 70%  
Implemented drift detection and auto-remediation for 50+ Terraform-managed AWS resources

## TECHNICAL SKILLS

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**Languages:** Python, Go, C++, Java, TypeScript, SQL, Rust

**ML/Data:** PyTorch, TensorFlow, Apache Beam, Spark, FAISS, Pandas, NumPy

**Infrastructure:** Kubernetes, Docker, Terraform, AWS, GCP, Kafka, Redis, PostgreSQL

**Tools:** Git, Linux, gRPC, Prometheus, Grafana, Jenkins, Bazel