

Anirudh Rao

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PROFESSIONAL EXPERIENCE

Apple Inc.

Machine Learning Engineer – Sunnyvale, CA

Oct 2024 – Present

- Architected and developed a production-scale generative AI system designed for millions of customers, implementing advanced prompt engineering with intelligent context optimization, sophisticated content safety frameworks, and seamless multi-model orchestration for RAG-based applications, positioning the platform to drive substantial revenue growth through highly personalized recommendations and elevated customer engagement
- Designed and implemented a comprehensive end-to-end evaluation infrastructure for large-scale generative AI systems, creating distributed LLM-as-judge frameworks capable of processing over 8M+ evaluations, automated regression testing pipelines with extensive benchmark datasets, and quality validation systems, successfully reducing production issues by 40% through systematic quality gates and continuous monitoring
- Led critical technical initiatives across knowledge base infrastructure and internal tooling platforms, designing a high-performance document retrieval system managing 107,000+ files with over 95% accuracy for complex generative AI RAG systems, developing innovative prompt management and testing platforms with built-in version control capabilities, while mentoring 2 junior engineers and conducting 10+ technical hiring interviews to strengthen team capabilities

Junior Machine Learning Engineer – Cupertino, CA

Nov 2023 – Oct 2024

- Successfully architected and deployed a Mac Recommendations service from the ground up, creating an intelligent question-based recommendation engine with trade-in value optimization and localized part number handling, directly driving increased sales conversion rates and higher customer satisfaction across all Mac product lines
- Conceptualized, designed, and implemented an iPhone recommendation system with comprehensive A/B testing infrastructure, including sophisticated metadata tracking, version control, and seamless analytics pipeline integration via Kafka, enabling data-driven optimization and contributing significantly to the ~\$80M annual sales lift
- Engineered a robust dynamic configuration system and intelligent buyability validation framework for real-time recommendation suppression, successfully boosting recommendation accuracy to over 98% by automatically filtering out-of-stock and incompatible products, resulting in dramatically improved customer satisfaction scores and reduced support inquiries

LEADERSHIP & OTHER ACTIVITIES

CoderDojo, *Coding Instructor* – Pleasanton, CA

Sep 2016 – Feb 2017

- Instructed students of all ages in programming languages, specifically in Scratch, HTML, CSS, and Java, until the students were able to create their own websites and applications to add to their portfolios

Imagineering, *Robotics Instructor* – San Ramon, CA

Jun 2016 – Aug 2016

- Successfully instilled the fundamental skills of robotics in the budding youth, and taught the skills needed to progress in the field to middle school students, allowing them to build robots for the designated tasks
- Designed and built the demo robots with various sensors to be used in the instruction modules, resulting in a much greater understanding of the different functions sensors play in robots for the students

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science

May 2027

Concentration: Computer Science - Artificial Intelligence

GPA: 4.0; Computer Science - Artificial Intelligence GPA: 4.0

University of Illinois at Springfield

Springfield, IL

Bachelor of Science

Dec 2024

Major: Computer Science

GPA: 3.91; Computer Science GPA: 4.0; Honor: Summa Cum Laude

San José State University [*Bachelor of Science - Computer Science*] – San Jose, CA

Aug 2020 – Jun 2023

Relevant Coursework: *Bachelors* [Algorithms and Computation, Computer Architecture, Data Structures and Algorithms, Introduction to Computer Systems, Introduction to Data Structures, Introduction to Operating Systems, Introduction to Programming, Intro to Parallel Processing, Intro to Python, Object-Oriented Design, Processing Big Data, Programming in C, Programming Languages, Software Engineering Capstone]; *Masters* [Financial Modeling, Introduction to Healthcare Informatics, Software Architecture and Design]

SKILLS & CERTIFICATIONS

Computer/Technical: Programming [Expert], Java [Expert], Data Structures [Advanced], API Development [Expert], Machine Learning [Advanced], Python [Expert], Natural Language Processing [Advanced], Algorithms [Advanced]

Certifications: Exploratory Data Analysis for Machine Learning [IBM, Apr 2024]