ADITHYA KETHU

+1 413-930-5170 | hi@adikethu.com | [Website](#) | [LinkedIn Profile](#) | [GitHub Profile](#)

EDUCATION

University of Massachusetts, Amherst | Amherst, MA
B.S. in Computer Science, Minor in Business | Graduated Dec 2022
Honors: Summa Cum Laude, 4.0 GPA, Chancellor's Award

SKILLS

Languages: Python, Java, JavaScript/TypeScript, SQL, C
AI/ML: PyTorch, Scikit-learn, Spark, TensorFlow, FastAPI, NLP, OpenCV, MLFlow, Vector DB, LLMs (RAG)
Infrastructure & Tools: Docker, Kubernetes, Terraform, Airflow, GCP, AWS, Spring Boot, React, Django, PostgreSQL, Redis, Kafka, Aerospike, GraphQL, BigQuery

EXPERIENCE

WAYFAIR | BOSTON, MA
Software Engineer II, Search Pipeline Engineering | Feb 2023 - Present
- Engineer high-throughput data processing systems for the Search & Recommendations platform, directly influencing product discovery for millions of Wayfair customers.
- Led multiple business-critical epics, delivering robust backend solutions that improved system scalability and performance, consistently earning top ratings.

TOOTHPRINTS PC | BOSTON, MA
Director of Technology (Advisor on board) | Sep 2023 - Present
- Grew from an intern to Director of Technology by creating a novel ML algorithm to diagnose jaw malocclusion from facial biometrics, forming the core IP of the company.
- Led the development and launch of two AI-powered medical apps, now serving over 1,400 parents & professionals.
- Drove the full product lifecycle by leading a team of 3 & redefined the technical landscape of a 25yo dental-tech startup.

PROJECTS

[BAGELS AI](#) - Rebuilding Company Culture With AI
- Architecting and building [Bagels ai](#), an autonomous agent designed to combat workplace loneliness, handling everything from core model strategy to backend infrastructure.

[GNATHIC APP](#) - AI-Powered Craniofacial Diagnostics
- Engineered a production-ready neural network that predicts craniofacial growth abnormalities in infants with **>90% accuracy**, enabling early, cost-effective intervention.

[PACIFIED® APP](#) - AI-Driven Preventative Care
- Led the design, architecture, and launch of an AI-powered app that guides parents to the correct orthodontic pacifier, now used by 1,400+ medical professionals and parents.

[CRAMCRAM](#) - AI-Supercharged Learning Tool
- Built and shipped an AI-powered flashcard and learning tool from concept to launch in under two weeks, achieving 100+ organic daily active users.

[RANTBOX](#) - Anonymous AI Community To Vent, Share Ideas
- Scaled to over 100 organic downloads to validate [Bagels ai](#) in enterprises.
- Independently developed and launched an anonymous community for users, in under 2 weeks, to vent and chat, attracting organic daily users seeking a safe space for expression.

PUBLICATIONS & PRESENTATIONS

USING DATASCIENCE TO STANDARDIZE PACIFIER SIZING | CHILDREN 2025
- Co-authored a [peer-reviewed publication](#) with leading orthodontists Dr. David Tesini, Dr. Clive Friedman, & Dr. Kris W. Hendricks on pacifier sizing for improved oral health.

WORLD SLEEP CONFERENCE 2023 | ROME, ITALY
- Published [abstract](#) and presented research on the ML algorithm powering the Gnathic app's novel diagnostic capabilities.

MASSACHUSETTS UNDERGRADUATE RESEARCH CONFERENCE | AMHERST, 2022
- Presented thesis on the Gnathic-Click® algorithm as a pioneering screening tool for craniofacial abnormalities.

OPEN SOURCE CONTRIBUTIONS

- NextDoor: Lead an independent study on integrating Python constructs in C so as to fuse [NextDoor](#) with Deep Graph Learning modules to improve graph sampling with deep learning and GPUs.
- HackUMass IX: Co-built reusable features for the official HackUMass [website](#) & internal [dashboard](#).