

Keshav Sreekantham

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EDUCATION

Purdue University

B.S. Data Science (Computer Science)

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Foundations of Computer Science, Introduction to Machine Learning, Numerical Methods, Intro to Machine Learning, Statistical Theory

Purdue University

May 2028 | **GPA: 3.71**

EXPERIENCE

AI Infrastructure Intern

NI @ Emerson

May 2026 – Current

Austin, TX

- Architected a client-facing CLI enabling automated private cloud AI deployment for **30+ Fortune 100 customers**
- Designed a standalone CLI bundle + automatic CI pipeline for app updates, reducing customer support time by **85%**
- Shipped as the flagship AI service of NI's test and measurement suite to **35,000+ companies** worldwide

Project Manager

Mead Johnson @ Data Mine Purdue

January 2026 – Current

West Lafayette, IN

- Led a team in the development of a **state-of-the-art research database** for Mead Johnson Reckitt R&D division
- Developed a multi-step LLM generation/validation pipeline to impute omissions, yielding an unprecedented corpus of **91,000** data points
- Consistently upheld Agile methodology by facilitating iterative planning, weekly stand-ups, sprint reviews, and continuous improvement through retrospectives.

Measurement Software Engineer

Continuity Pharma

September 2025 – May 2026

West Lafayette, IN

- Developed a full-stack real-time monitoring system using React.js and Node.js (Express) to continuously track metrics with **sub-second latency**, enabling a **90% reduction** in manual equipment monitoring time.
- Engineered data pipeline to process and store **over 2 million data points daily** from on-site manufacturing equipment using MongoDB.
- Implemented a real-time alerting system and robust data traceability to generate FDA compliant batch records

Software Engineering Intern

Spring Education Group - Schools of Paragon

June 2025 – August 2025

Austin, TX

- Built an educational analytics dashboard utilizing Javascript, Next.js (React) and FastAPI enabling **65% faster** longitudinal assessment of performance on exam questions.
- Deployed on Vercel while managing back end via Python REST API, storing **2500+ exam questions** in a PostgreSQL database, deployed on Render.
- Currently utilized to inform curriculum changes across **2 departments, 5+ classes and 200+ students**.

PROJECTS

Redub | Modal, Cloudflare D1/R2, FastAPI, React

- Orchestrated a custom GPU environment on Modal, **cutting compute costs by 67%** compared to industry leader HeyGen
- Architected a **5-step** end-to-end ML pipeline, automating a 48hr+ process into a single-click workflow
- Harnessed Modal's serverless scaling to deliver per-user voice optimization that preserves unique vocal nuance across language

Protein Function Prediction Optimization | Shell, Perl, Ruby, Python | kiharalab.org/pfp

- Optimized predictive models by integrating modern sequence alignment tooling, enabling **4x faster sequence alignment queries**.
- Refactored sequence function annotation tool code base, **reducing code size by 33%**.
- Utilized by clinical researchers as the official protein function prediction tool of the KiharaLab Bioinformatics Suite

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML, Bash, MATLAB, R, C++, Swift, SQL

Frameworks: React, Next.js, Node.js FastAPI, Django, Flask, Tailwind CSS

Developer Tools: GCP, MySQL, PostgreSQL, MongoDB, Agile, Linux, Jupyter, Vercel, Render, noSQL, OAuth, Shell Scripts, Git, GitHub, CI/CD, Docker, Kubernetes, Cloudflare