

Rohan Kulkarni

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EDUCATION

University of Illinois Urbana-Champaign

Bachelor of Science in Computer Science and Bioengineering

Urbana, IL

August 2024 – May 2028

EXPERIENCE

Fitfo → \$500K Raised @ \$25M Post-Money Valuation

April 2026 – Present

Co-Founder & Chief Technology Officer

- Built and shipped LLM-based agentic systems that let creators deliver personalized coaching to thousands of users
- Scaled Fitfo to **30K+ users** and **\$200K+ ARR**, owning system architecture and leading a team of 8 engineers
- Led the React Native, FastAPI, PostgreSQL, and Stripe stack, plus cloud infrastructure powering creator launches

Icahn School of Medicine at Mount Sinai

May 2026 – August 2026

Computational Biology @ Kathiriya Lab

- Characterized epithelial cell states in single-cell RNA-seq data from a bleomycin-induced lung fibrosis mouse model
- Implemented an end-to-end Seurat pipeline for QC, normalization, clustering, UMAP, and marker-gene annotation
- Ran differential expression and pathway analyses to identify regulators of lung epithelial repair and injury response

Sudden Cardiac-Death Awareness Research Foundation

August 2025 – May 2026

Machine Learning

- Built preprocessing and data-quality pipelines for 50K+ ECG recordings, reducing labeling inconsistencies by 40%
- Trained TensorFlow arrhythmia classifiers that improved cardiac-arrest detection by 12% AUC versus the baseline
- Analyzed subgroup errors across 10K+ patients to improve the models' demographic generalization and reliability

UIUC Department of Nanotechnology & Nanomedicine

September 2025 – May 2026

Bionanomolecules @ Nie Lab

- Improved nanoparticle-biomolecule binding efficiency from 60% to 85% across 30 conjugation trials and lab assays
- Quantified nanoparticle uptake in 1,000+ cells under 10 conditions, measuring 1.8x higher internalization in vitro
- Reduced assay failure rates from 30% to 10% through 4 successive rounds of protocol validation and optimization

Weill Cornell Medicine

September 2022 – June 2024

CRISPR Oncology @ Dow Lab

- Designed inducible CRISPR base-editing workflows in mouse organoids, raising on-target editing efficiency to 70%
- Validated edits in multiple organoid models, improving reproducibility while reducing assay reruns to below 10%
- Analyzed tumor neoantigen and immune-response data from 50+ samples to prioritize new oncogene perturbations

PROJECTS

Congruence: AI Clinical Documentation Platform | Python, FastAPI, LangChain, Redis

- Built an agentic LLM workflow turning clinical transcripts into insurance-ready SOAP notes in under 60 seconds
- Implemented patient-context retrieval (RAG) and treatment-plan generation using FastAPI, LangChain, and Redis
- Supported 100+ patients with provider-specific workflows, reducing documentation time across recurring care visits

SetID: Receipt Splitting & Payments App | React Native, PostgreSQL, FastAPI, Stripe

- Built a bill-splitting app that lets users scan receipts, claim items, allocate tax and tip, and track shared balances
- Developed receipt OCR, shared expense sessions, SMS verification, and secure payment APIs on a FastAPI server
- Integrated React Native, PostgreSQL, and Stripe so users can settle up across receipts and shared expense groups

TECHNICAL SKILLS

Languages: Python, C/C++, Java, TypeScript, JavaScript, SQL, Go, and Bash

Frameworks: FastAPI, Flask, Node.js, Celery, LangChain, React, and React Native

ML & AI: PyTorch, TensorFlow, Hugging Face Transformers, LLM agents, RAG, pandas, and NumPy

Infrastructure: Docker, Git, Linux, PostgreSQL, Redis, Google Cloud, and Travis CI