

HRISHIKESH KAMATH

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EDUCATION

University of Delaware

Master of Science in Electrical & Computer Engineering

Newark, DE

Aug 2023 – May 2025

RV College of Engineering

Bachelor of Engineering in Electrical & Electronics Engineering

Bangalore, India

Aug 2016 – Dec 2020

EXPERIENCE

StrataLens AI | www.stratalens.ai

Founder

San Francisco, CA

Jan 2025 – November 2025

- Design multi-agent equity research system with **LangChain** orchestration across **4 specialized sub-agents** (SEC filings, earnings calls, news, stock screener) with **web search** and **text-to-SQL** interfaces with agent observability via **Logfire**
- Built end-to-end platform with **React/TypeScript** frontend and **FastAPI/PostgreSQL/S3** backend
- Developed SEC filings sub-agent achieving **91% accuracy** on **FinanceBench** via latency-optimized **RAG** over **100,000+** vectorized filings in **Qdrant**, evaluated with an **LLM-as-judge** pipeline measuring relevance, accuracy, and citation quality

Mbd.xyz

Summer Research Engineer

Newark, DE

Jun 2024 – Aug 2024

- Built end-to-end data analytics pipeline over **74M+** Community Notes records: daily ingestion, cloud transformation with **AWS Glue**, and analytics via **AWS Athena**, reducing dashboard compute time by **30%** through query optimizations
- Built topic clustering with transformer embeddings to surface misinformation patterns across multilingual Community Notes

Ederlabs

Founding Software Engineer

Bangalore, India

Oct 2020 – Jun 2023

- Built backend for provisioning isolated data analysis sandboxes processing **5TB+** of customer data using **Python, FastAPI, PostgreSQL, and Celery**
- Built data ingestion pipelines with **Airbyte** connectors across **Snowflake, PostgreSQL, and S3** with **PII** detection/redaction tooling
- Contributed to federated learning infrastructure with secure data ingestion and distributed training tracked via **Weights & Biases**
- Designed and owned CI/CD infrastructure adopted across all company projects using **Docker, GitLab CI/CD, Kubernetes, and Terraform** on **AWS** and **GCP**, automating unit, integration, and deployment pipelines

PROJECTS

Web Search Engine

2026

- Built fault-tolerant distributed web crawlers in **Rust** across **10 instances** with **Redis** queue coordination (lease management, domain locking, dead-letter queues, per-domain rate limiting), crawling **350,000 pages/hour** for **<\$100/month**
- Built full-text search over **30M+ pages (1 TB+)** using **Tantivy** inverted index with **BM25** ranking and **ReAct** agent-driven query decomposition and reasoning, with a **React/TypeScript** frontend

TheMarketCast.ai | themarketcast.ai

2025

- Built a **Python/PostgreSQL** platform parsing and analyzing **450,000+** SEC Form D filings with **sub-second** query latency via **Redis** caching and query optimization, attracting **3,000+ organic weekly users**; acquired by **Smartkarma**

RESEARCH

University of Delaware

Graduate Researcher

Newark, DE

Apr 2024 – Dec 2024

- Fine-tuned **LLMs** for Verilog code generation using **PyTorch** and explored inference-time optimization via **Monte Carlo Tree Search (MCTS)** to improve circuit design quality
- Trained **Reinforcement Learning** and **Graph Neural Network** models using **Stable Baselines3** and **PyTorch Geometric** to break logic locking techniques in hardware security

OPEN SOURCE CONTRIBUTIONS

PySyft, OpenMined

Core Contributor

Remote

2019 – 2022

- Wrote the first Python implementation of the **FALCON protocol**, an honest-majority maliciously secure multi-party computation framework enabling private deep learning across distributed parties