

Chaitanya Chaurasia

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EDUCATION

Arizona State University

B.S. Computer Science (Dean's List)

Aug 2021 - May 2025

Tempe, Arizona

WORK EXPERIENCE

B:Side Capital | *Full-Stack Software Engineer*

San Francisco, CA | Sept 2024 - present

- Engineering a **SOC-2** compliant CRM & AI co-pilot to deliver financial KPIs on **\$100M+** in business assets.
- Designed a pgvector-to-RAG pipeline, fine-tuned with **QLoRA**, capable of reasoning & anomaly detection based on user cash flows, accounts and assets.
- Employed **Ansible**-based CI/CD pipelines + **IaC** with AWS SAM to automate and zero down deployment issues.

Freelancing | *Self-employed*

Aug 2023 - present

- Architecting and developing **0-to-1** products for **YC** and **early-stage startups/businesses**, owning the full lifecycle from system design to execution.

IDEXX | *Embedded Systems Engineering Intern*

Portland, ME | June - Aug 2024

- Developed infrastructure, system-design & CLI tools for LAN messaging, remote control & status monitoring of **Linux**-based veterinary instruments.
- Re-architected legacy microservices for **DevOps** into a robust **MVC** model using C++ & Lua.
- Designed a priority-based **queueing system** to optimize HTTP/TCP traffic, boosting throughput by $\approx 40\%$.

Indian Institute of Technology | *Machine Learning Engineering Intern*

Delhi, India | May - July 2023

- Employed Python & **Graph Neural Networks** to optimize UKs power systems networks by **25%** based on socio-economic factors & predictive data analytics.
- Built batch **ETL pipelines** to feed SQL data into ML models for **severity classification** of parameters such as capacity, emissions, & coupling.
- Leveraged linear optimization to simulate network load balancing, increasing energy generation by $\approx 35\%$.

Arizona State University | *CSE360 - Undergraduate Teaching Assistant*

Tempe, AZ | Jan - May 2024

- Mentored 150+ students on **Agile** methodologies, lifecycle traceability, QA, & risk assessment frameworks.

SKILLS

Languages: C++, Java, Python, JavaScript, SQL

Frameworks: ASP.NET, Node.js, Next.js, React, Angular

Libraries: Flask, NetworkX, OpenCV, Scikit-Learn

Tools: LLMs, NoSQL, AWS, Jira, Ansible, Docker, Git, Hadoop, Linux, Kafka, Spark

PROJECTS

StockSage | *Next.js, Python, Social Media Mining*

- Employed **community** & **sentiment analysis** (from Reddit, X, Yahoo Finance) that determines options, equity prices and trading strategies for user-selected tickers.
- Integrated a back-testing investment framework with **XGBoost**, user-defined thresholds, & real-time NSE data to optimize trading strategies.

Legal AI | *MLH Google Cloud Track Winner, HackHarvard* | *React, Python, Google Cloud*

- Developed a conversational web app for rapid & precise legal guidance, leveraging Google Cloud & a custom-trained PaLM model.
- Features include **fine-tuning LLMs** for precision, Elasticsearch, & **indexing** for faster responses and LLM-based reasoning & query response.
- Built **recommendation engines** on Vertex AI, integrating geolocation & query severity to then connect users with help.