

ARJUN KULKARNI

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EDUCATION

University of Illinois Urbana–Champaign

B.S. in Computer Science & Materials Engineering

May 2026

Urbana, IL

– Relevant Coursework: Data Structures, Algorithms, Database Systems, Applied Artificial Intelligence, Data Mining

– Certifications: AWS Cloud Practitioner, MITRE Embedded Systems, Stanford Supervised Learning, MERN Stack

SKILLS

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

Infra/Cloud: Kubernetes (EKS), Terraform, Helm, Istio, Cloudflare, Datadog, Linux, Docker, CI/CD

Backend/Data: Spring Boot, Postgres, Redis, DynamoDB, Airflow, AWS, Node.js/Express, FastAPI

Frontend/Testing: React, React Native, GraphQL, Storybook, Radix UI, Vite, Playwright

ML/Automation: Metaflow, HuggingFace, PyTorch, TensorFlow, Pandas, LangChain, RAG

EXPERIENCE

Rumor

Software Engineer Intern

Nov 2025 – Jan 2026

New York, NY

– Built NextJS onboarding flows backed by Postgres and AWS, supporting 30k concurrent users over 500 events.

– Designed RBAC with real-time backend updates for 1k+ event hosts, strengthening reliability during a \$3M round.

Curator.to

Founding Engineer

Jan 2024 – Dec 2025

New York, NY

– First founding engineer; raised \$1M, launched AI commerce platform for 4+ enterprises using NextJS, Postgres, AWS.

– Built no-code e-commerce agent framework using LangChain + RAG; powered 2K+ daily queries in production.

AbbVie

Software Engineer Intern

Dec 2024 – Jun 2025

Chicago, IL

– Built ETL pipeline for cancer research teams, cutting document wrangling time by 80% for 240k+ docs.

– Optimized FastAPI ingestion + Postgres queries, batching, async workers to boost pipeline 4× for R&D operations.

UCSD Health & Coordinated Science Laboratory

Software Engineer Intern

Jan 2025 – Aug 2025

San Diego, CA

– Led DevOps and ML workflows for UCSD-integrated AI dietitian platform serving 200+ patients (Prof. Varshney).

– Built subgraph DAG and RAG pipeline with LangGraph, boosting dietary accuracy based off of patient data by 22%.

Beckman Institute

ML Research Intern

Feb 2025 – Apr 2025

Urbana, IL

– Built a real-time Django chat platform with WebSockets for dual-user LLM interaction studies at scale.

– Debugged and stabilized multi-user sessions for 40+ subjects, ensuring zero message loss and clean analytics.

Illinois Artificial Intelligence Group

ML Research Intern

Jan 2024 – Jan 2025

Urbana, IL

– Integrated RL pipeline into existing MPC framework for autonomous EVs in SUMO, improving accuracy by 25%.

– Achieved 18% lower traffic delay in open-world SUMO simulations by tuning ROS, optimizing C++ control loops.

Civil Newmark Lab

ML Research Intern

Jan 2024 – May 2024

Champaign, IL

– Ran 40+ experimental tests over 3 months analyzing carbonation reduction using LC3 cement composites.

– Applied Random Forest models in Python to predict and reduce cement-related CO₂ emissions by 18%.

Illinois Quantum Information Technology Center

ML Research Intern

Sep 2025 – Nov 2025

Champaign, IL

– Built a Python pipeline to run and log COMSOL simulations at scale, generating ready training data (Prof. Leburton).

– Implemented simulations for Ionic Coloumb Law to train regression model to increase hardware energy output by 27%.