

Dinesh Vasireddy

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EDUCATION

Harvard University Cambridge, MA
A.B./S.M. Computer Science and Government, GPA: 3.93/4.0 Aug. 2023 – May 2027

- **Selected Coursework:** Artificial Intelligence, Data Structures & Algorithms, ML Interpretability, Probability, Linear Algebra & Real Analysis, Systems Programming
- **Extracurriculars:** Innovation Labs, Harvard Data Analytics Group, Harvard Tech for Social Good (Software Engineer), **Z Fellow**

PROFESSIONAL EXPERIENCE

GovDash (YC W22) New York, NY
Software Engineer June 2024 – Present

- Developing an AI-driven platform for government contracts using Next.js, Prisma, TRPC, and Azure LLMs.
- Shipped 20+ features, including an analytics suite handling \$50M of data with real-time caching and secure exports.
- Optimized GovDash's AI-powered assistant in MS Word/Web, improving retrieval efficiency and front-end loading times.

Coca-Cola & Boeing Cambridge, MA
Data Engineer (Contract) Oct. 2023 – Present

- Developed machine learning pipelines for Boeing & SkyGrid's supply chain optimization, projecting lower inventory costs by 15%.
- Built a Flask-based risk simulation tool with a fast-frontend for market forecasting, leveraging in-memory caching for 50% faster trend analysis.

Arkansas United Little Rock, AR
Software Engineer Oct. 2022 – Jun. 2023

- Launched a scalable immigrant resources portal, supporting 2K+ users and 10+ partners with optimized caching for fast loading times.
- Designed ML models for electoral analysis, providing data-driven policy recommendations with 15% increased accuracy.

Datategy NextGen AI Solutions Paris, France
Data Science and AI/ML Intern Jun. 2022 – Sep. 2022

- Developed scalable ML algorithms for Datategy's AI workflow platform, utilized by 20+ international clients across sectors (healthcare, oil/gas, government), increasing accuracy by $\approx 35\%$.
- Optimized resource allocation for the French Economy Ministry by fine-tuning a predictive model, improving prediction accuracy by 30% and reducing decision-making time by 20%.

Walmart Global Technologies Bentonville, AR
Software Engineering Intern Sep. 2021 – May 2022

- Created a demand forecasting model for Walmart.com's merchant interface, impacting 300M+ stores and 150K+ merchants.
- Redesigned an archaic, physical retail-focused model, boosting merchant retention and accuracy by 20% worldwide.

University of Arkansas SEEDS Center Fayetteville, AR
AI/ML Research Assistant Apr. 2021 – Jun. 2023

- Conducted NSF-funded research on cybersecurity, applying Doc2Vec, Fast.ai, and BERT for vulnerability classification, achieving 30% higher detection rates.
- Published findings at TechConnect's Resilience Week 2023 in Washington, D.C.

PROJECTS

Lightspeed — *Next.js, Python, Supabase, OpenAI, Stable Diffusion* Aug. 2024 – Oct. 2024

- Developed an AI platform for political media monitoring and ad creation with LLM pipelines, achieving < 200 ms latency on perplexity-style responses.

- Processed 100K+ data points with caching to boost retrieval speed by 80% and enable low-latency Stable Diffusion ad generation.
- Secured LOIs and early users from federal and state campaigns

Rally AI — *Next.js, React, TypeScript, Supabase, Cartesia.ai, SyncLabs, Firecrawl, Perplexity* Sept. 2024

- Built an AI platform that generates personalized political ads using AI-driven candidate personas.

– Won *2nd Place & Best Design* at PennApps Hackathon.

Commonwealth.ai — *Next.js, Python, PostgreSQL, OpenAI, Selenium* Dec. 2023 - Mar. 2024

- Developed a political research engine with semantic search, LLM-powered list creation, and research thread management.
- Served 2130+ users, indexed 12,000+ articles, and supported 15 active campaigns with paid plans.

PolyData Electoral Innovation Network — *React, Node.js, Python, TensorFlow, AWS, D3.js* Sep. 2021 – Jun. 2023

- Built AI-driven election analysis tools, including Voter Pulse (inactive voter identification) and an Electoral Report Generator, generating \$70K ARR.

– Deployed solutions for campaign and government use, presented to 10+ state politicians for voter behavior insights.

SKILLS

Languages: Python, Java, R, JavaScript, HTML/CSS, Rust, Swift, C++

Technologies: React, Node.js, Next.js, Flask, AWS, Google Cloud, Redis, RAG, Transformers, TensorFlow

Interests: GovTech, Generative AI, Sales Tech, Electoral Science, Defense Tech, Social Analysis