

Contact

2128143681 (Mobile)
akashdub06@gmail.com

www.linkedin.com/in/akash---dubey
(LinkedIn)
sites.google.com/ucvts.org/akash-dubey-digital-portfolio/home
(Portfolio)

Top Skills

C++
GPU
Generative AI

Languages

Spanish (Elementary)
Hindi (Limited Working)
English (Native or Bilingual)

Certifications

Microsoft PowerPoint (Microsoft 365 Apps and Office 2019)
CompTIA IT Fundamentals (ITF+) Certification
Java Foundations Certified Junior Associate Certification
IC3 Digital Literacy Certification GS6 Master (All 3 levels)
Online Learning Skills

Honors-Awards

Dean's List Semifinalist
High Honor Roll
RIT High School Science and Math Award
Fall Data Challenge Honorable Mention
DePaul's Blue Book High School Writing Showcase Finalist

Akash Dubey

Engineer | Computer Science + Mathematics @ Rutgers University
Honors College
Berkeley Heights, New Jersey, United States

Summary

I've been working with software and mathematics for over 10 years

Experience

Rutgers Economics Labs

1 year 6 months

President

January 2026 - Present (3 months)

Research Director

July 2025 - February 2026 (8 months)

In charge of overseeing and sourcing all research projects. Designed studies for NJDOL and Virginia Consensus for Higher Education in Prison.

Team Lead

February 2025 - August 2025 (7 months)

New Brunswick, New Jersey, United States

Led a team of five dedicated student researchers to analyze the Urban Enterprise Zone program for the New Jersey Department of Community Affairs. Performed comprehensive analysis of census data with econometric methods in Python and R.

Economic Researcher

October 2024 - February 2025 (5 months)

Analyzed NJ Clean Energy Programs, EV incentives. Synthesized 20+ years of historical data from various sources to extract patterns and create projections of economic funding variables.

I also scraped every historic NJ state budget PDF as a side project to provide more data.

Lykke

Software Engineer

September 2025 - Present (7 months)

Helped design and expand a multi-model AI pipeline to ingest, parse, and structure high-velocity, multi-modal data (texts, voice memos, docs) for a conversational RAG-based chat application.

Engineered a fully local, browser-based RAG application by implementing a local embedding model optimized with WebGPU for client-side hardware acceleration, ensuring high performance and user privacy.

Architecting the integration of diverse data sources, like the Canvas LMS, to build a rich, domain-specific knowledge graph that transforms disparate academic information into an intelligent, queryable asset for students.

Scarlet Sync

Co-Founder

January 2025 - Present (1 year 3 months)

New Brunswick, NJ

join 750+ users planning their schedule from thousands of classes and 500+ degree options

Samaritan Scout

Full Stack Engineer

May 2025 - August 2025 (4 months)

Springfield, NJ

Working on agentic scraper and back end. Created prompt engineering tools. Scraped 100k non-profitsites and extracted info with LLM structured output to create an AI-powered search engine for over 35,000 volunteer opportunities across America

Created robust pre- and post-processing to improve ETL process to filter sites and address hallucinations cost-effectively with semantic search and checks

Worked on front and back-end features for search experience with React, TypeScript, and Postgres

Samaritan Scout

Frontend Software Engineer

May 2023 - August 2024 (1 year 4 months)

New Jersey, United States

Learned React, TypeScript, and MaterialUI to help create the home, about, and donate page of website. Organized creation of reusable components throughout the site. Added miscellaneous features like website embeds, social link previews, and image carousels. Also learned more about web scraping and extracting information with LLMs.

Education

Rutgers University–New Brunswick

Bachelor of Science from the Honors College, Mathematics and Computer
Science · (September 2024 - May 2027)

Union County Academy for Information Technology

· (September 2020 - June 2024)