

Karan Gera

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Technical Skills

Languages: Java, Python, JavaScript/TypeScript, C/C++, C#, PHP, GDScript

Frameworks: React.js, .NET 8, Flask, FastAPI, Spring Boot, PyTorch, Vercel AI SDK, Godot

Databases: MySQL, MongoDB, Oracle, MS SQL Server, Amazon Neptune, Neo4j, Snowflake

DevOps & Tools: Git, Jenkins, Docker, Kubernetes, Ansible, AWS, Google Cloud

Education

B.S. in Computer Science

New Jersey Institute of Technology – Newark, NJ

Sep 2021 – May 2025

- Dean's List (2023, 2024, 2025), Academic Excellence Scholarship
- Relevant Courses: Algorithms, Data Structures, Object-Oriented Programming, Data Science, Linux Programming, Discrete Mathematics, Neural Networks + Large-Language Models, Diffusion Models

DevOps Training Program

Intellipaat – Remote

Jun 2023 – Aug 2023

- Completed 3-month intensive program covering CI/CD pipelines, Docker, Kubernetes, Jenkins, and cloud deployment (AWS, GCP).
 - Built and deployed containerized apps, automated workflows, and monitoring pipelines.
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Work Experience

Software Development Intern

Clearwater Analytics – Boise, ID

Jun 2024 – Aug 2024

- Developed an automated migration pipeline to migrate SQL Server data to AWS Neptune Graph DB using Pandas
- Optimized query time complexity from linear to constant time with a new graph DB schema
- Reduced storage usage 15.8x and lowered processing cost by 50%, deployed API endpoints using Flask
- Tool repurposed by R&D for Snowflake and other DB migrations

Software Engineer (Co-op)

WJTB Radio, NJIT – Newark, NJ

Mar 2023 – May 2025

- Led backend development for the station's live-streaming infrastructure, scaling to *1,000+ concurrent listeners*
 - Designed and deployed real-time broadcast pipelines with uptime dashboards and monitoring tools
 - Implemented CI/CD workflows (Github Actions) for automated builds and rollouts, reducing downtime
 - Migrated legacy monoliths into containerized microservices, improving scalability and reliability
 - Supervised and mentored a team of 5 developers, providing training and code reviews
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Top Projects

Agentic AI Email Prioritizer – Python, FastAPI, Cohere (June 2025)

- Developed an AI pipeline automating fetch - summarize - classify - respond workflow
- Designed and deployed FastAPI endpoints, returning structured JSON output
- Improved prioritization accuracy by ~85% in benchmark tests

Album Artwork Search Engine – React.js, Cloudflare Workers (*Feb 2025 – Present*)

- Built a music artwork search platform integrating iTunes, MusicBrainz, Last.fm, and Discogs APIs
- Designed API fallback, caching, and image optimization; scaled to 4,000+ DAUs with sub-second load times.

Full Service Game (Capstone) – Godot, Neo4j, TypeScript (*Jan 2025 – Apr 2025*)

- Led backend dev; architected graph-based dialogue engine using Neo4j + JSON APIs
- Awarded 3rd place, NJIT Spring 2025 Capstone Showcase

Virtual Town Extension – TypeScript, React.js, MySQL (*Nov 2024 – Dec 2024*)

- Extended an open-source virtual town platform with account management + proximity-based interactions
- Delivered full-stack implementation in 5 weeks; increased user retention in testing by ~30%

Student Sleep Dashboard – React.js, D3.js (*Sep 2024*)

- Data visualization dashboard correlating student sleep with screen time and study habits
- Delivered interactive charts and user controls

Affiliations

- Member, **WJTB Radio @ NJIT** (Mar 2022 – May 2025)
 - Participated in Live Events, Conferences, and lead Workshops
 - Contributed to infrastructure rebuild as a part of the Executive Board
- Member, **Association for Computing Machinery @ NJIT** (Sep 2021 – May 2025)
 - Participated in Hackathons, Workshops and Projects