

Keshav Goel

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EDUCATION

Northeastern University

Bachelor of Science in Data Science and Mathematics, GPA: 3.88/4.00

May 2027

Boston, MA

EXPERIENCE

Johnson & Johnson

Software Engineering Co-op

Jun 2025 - Present

Raritan, NJ

- Shipped **5 Slack microservices** (Excel data transcription, message exports) via **Node.js apps** on **Kubernetes**, handling **2k+ Msgs/day** and cutting cross-team workflow latency by **60%**.
- Built **3 GenAI workflows** (document summarization, internal tool discovery) using **RAG pipelines**, **LangChain**, and **Snowflake**, saving **200+** hours for **20** research teams.
- Implemented **AWS EC2-hosted DICOM imaging server**, reducing scan transfer time by **90%** and reducing data-sharing failures by **35%** for **300** researchers.

Northeastern University

Data Science Research Assistant

Oct 2024 - Present

Boston, MA

- Modeled **20K+ EPA incident records** with linear regression & time series forecasting on **Meta Prophet**, achieving **88% prediction precision** and enabling analysts to prioritize inspections based on risk indicators.
- Engineered **Python & SQL ETL** for **5TB data**, improving data quality by **75%** through schema filtering and consistency checks, accelerating insights by **35%** via automated data cleaning.

Northeastern University

DS2000 Teaching Assistant

Sep 2024 – May 2025

Boston, MA

- Mentored **100+ students** through office hours and feedback sessions, improving assignment performance by **20%**.
- Guided students in mastering **Python** and **Pandas**, fostering problem-solving skills in data science.

VDart Inc.

AI Product Intern

May 2024 - Aug 2024

Atlanta, GA

- Developed **AI resume & interview platform** using **Ollama** and **HuggingFace**, reducing recruiter screening time by **50%**, enabling faster hiring decisions.
- Architected database to process **5GB data** with **MongoDB** and **AWS S3**, cutting profile retrieval time by **45%**.

PROJECTS

NUPathfinder | *Streamlit, Flask, MySQL, Docker, REST APIs*

- Deployed full-stack platform matching student skills to co-op requirements, supporting **50 students/advisors**.
- Allowed for accurate matches through mySQL querying, relational DB design, iterative A/B testing, and APIs.

BreatheEasy | *Flutter, Dart, Google Maps API, Shelf, Docker*

- Won **1st place** out of **400+ teams** for an eco-friendly route planning app using Google Maps + AQI data APIs.
- Scaled backend services to handle **10K+ API requests/day** with Shelf and Docker.

Textmate | *Python, NLTK, OpenAI, Pandas, Plotly*

- Created a modular **NLP pipeline** analyzing **1,000+ sports articles** for global sentiment trends across games.
- Automated sentiment extraction with web scraping, NLTK lemmatization, and Plotly visualizations.

Bububble | *Next.js, TailwindCSS, Supabase, OpenAI*

- Developed a **bubble-based UI** enabling users to visualize and dynamically update skills through “popping”.
- Delivered **personalized recommendations** using OpenAI with Edge Functions and User Knowledge Graphs.

TECHNICAL SKILLS

Languages: Python, C++, Java, SQL, JavaScript, R, Node.js, Dart, TypeScript, HTML, CSS

Data & ML: PyTorch, Scikit-Learn, Pandas, NumPy, HuggingFace, Ollama, Matplotlib, Seaborn

Systems & Cloud: AWS S3, AWS EC2, Kubernetes, Docker, Node.js, Unix, Linux, Jenkins

Concepts: Data Structures & Algorithms, Object Oriented Programming, CI/CD, Agile Scrum

Leadership: BU Bhangra Secretary, Eagle Scout, CodePath TIP