

HIMANSHU SHEKHAR

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OBJECTIVE

Seeking a challenging position in Backend Development to leverage my expertise in Backend Engineering, AI/ML, and System Design. Aiming to contribute to innovative projects at the intersection of backend systems, artificial intelligence, and practical problem-solving, with a focus on building reliable, high-performance applications and intelligent systems.

EXPERIENCE

• Sythra

July 2026 – Present

Founder's Office

- Developed features for easier content creation, updating, and deletion in the admin panel.
- Debugged the Cloudinary setup for image uploads, improving content quality and reliability.
- Co-wrote the Machine Learning course and contributed to writing the Deep Learning course.

EDUCATION

• Bennett University

Bachelor of Technology - CSE

August 2024 – Present

Noida, India

- CGPA: 8.35

PROJECTS

• Taggy - An accountability-first learning platform

[Github!\[\]\(56549452e01ca28bdf2500ced9653143_img.jpg\)](#)

Go, Echo, PostgreSQL, sqlc, JWT, NVIDIA NIM, LiveKit

- Backend for a learning platform where users join skills, follow AI-made roadmaps, track progress, maintain streaks and join live audio rooms.
- Built the AI roadmap system using NVIDIA NIM with background jobs, retries and JSON cleanup so long generations don't break user requests.
- Added secure login with email OTP, Google OAuth, JWT sessions, refresh tokens and rate limiting.

• Vanilla Transformer from Scratch

[Github!\[\]\(bff896c19919791b89ab521f039b410a_img.jpg\)](#)

Python, PyTorch

- Built an encoder-decoder Transformer in PyTorch for English-to-Italian translation.
- Created a training pipeline using OPUS Books with custom tokenizers, padding, causal masks and checkpoints.

• Good Bash - Bash like Shell in Rust

[Github!\[\]\(206536f97fdb267876a3a10ea42b0254_img.jpg\)](#)

Rust, Cargo, Crossterm, CLI, Systems Programming, Process Management

- Built an interactive command-line shell in Rust with a raw-mode REPL, cursor movement, editable input buffer, and tab autocomplete.
- Implemented core built-ins and external command execution through system \$PATH.

SKILLS

- **Programming Languages:** Python, Go, C++, Rust, Java
- **Backend & Web:** REST APIs, Authentication, Authorization, Middleware, Layered Architecture, Repository Pattern
- **Machine Learning & AI:** Machine Learning, Deep Learning, Neural Networks, Computer Vision, OCR
- **Databases:** PostgreSQL, MySQL
- **System Design:** Backend Architecture, API Design, Scalable Systems
- **Tools & Technologies:** FastAPI, Echo, sqlc, JWT, bcrypt, Git, Docker, GitHub, Raspberry Pi, IoT

ACHIEVEMENTS

- 3rd Rank - Deep Sight Challenge, RoboGenesis BU April 2026
- Tech Lead at AI Society BU - Taught Neural Networks October 2025 - March 2026

CERTIFICATIONS

- [Machine Learning Specialization - Andrew Ng](#) July 2025
- [Deep Learning Specialization - Andrew Ng](#) October 2025

ADDITIONAL INFORMATION

Interests: IoT, Robotics, and AI Automation **Side Projects:** Rover and DeskBuddy - AI Pet