

# GURMEHER SINGH

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## EDUCATION

### New Jersey Institute of Technology

Bachelor of Science in Computer Science — GPA: 3.81/4.0

Expected May 2027

Newark, NJ

- Albert Dorman Honors College — Completed **30** volunteer hours per semester
- Recipient of the *NJIT Honors Full Ride Scholarship* | Dean's List (*All Semesters*)
- **Key Courses:** Data Structures and Algorithms, Object Oriented Programming, Linear Algebra, Probability and Statistics, Introduction to Computer Science, Podcast Practicum

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, SQL, HTML/CSS

**Web & App Development:** React, Node.js, Flask, Firebase, Google OAuth API

**AI/ML Tooling:** LangChain, Prompt Engineering, Agno (agentic AI), Pandas, NumPy, Jupyter

**Databases:** MongoDB, Neo4j (Graph), Qdrant (Vector)

**DevOps & Infrastructure:** Docker, Git, AWS

## EXPERIENCE

### AI/ML Intern

June 2025 – Present

Welzin — Credzin, flagship credit card optimization platform

Chandigarh, India (On-site)

- Engineered an ETL pipeline to scrape and structure **300+** credit cards with **80+** attributes via Firecrawl API; ingested data into Qdrant (vector DB) and populated a Neo4j knowledge graph using LangChain agents.
- Built a document-grounded credit card chatbot using retrieval-augmented generation (RAG) with hybrid retrieval—semantic search via Qdrant and keyword lookup via MongoDB—enhanced with neural reranking and source-cited LLM output via Gradio UI.
- Architected a personalized card recommender using Neo4j (graph DB) and multi-agent LLM reasoning; boosted response accuracy and latency by **50%**.
- Integrated Google OAuth and automated Gmail ingestion to extract, parse, and analyze **1,000+** user transactions; enabled scalable onboarding and spend pattern analysis.

### Learning Communities Peer Mentor

May 2025 – Present

New Jersey Institute of Technology

Newark, NJ

- Mentored **30+** first-year students, serving as a primary contact for academic support and campus transition; supported onboarding, open houses, and student engagement.
- Delivered peer instruction on CS fundamentals and Python; coached students on building professional presence using LinkedIn and Handshake.

### Co-Founder

May 2025 – Present

Scentsory Cartel

India

- Launched a direct-to-consumer fragrance startup; leading development of distribution, marketing, and fulfillment infrastructure ahead of full rollout.
- Built and scaled a pre-launch community of **500+** fragrance enthusiasts across India; designed a product line targeting **40%** average profit margin per unit.

### Undergraduate Research Assistant (Mentored by Prof. David A. Bader)

Sep 2024 – Jan 2025

New Jersey Institute of Technology

Newark, NJ

- Optimized Python-based ML algorithms for co-traveler detection using large-scale device ID, timestamp, and geospatial datasets; reduced runtime by **30%** and improved performance on high-volume data.
- Conducted geospatial analysis with ArcGIS to uncover suspicious co-travel patterns; contributed findings to a research survey paper.

## LEADERSHIP

### Computer Science Major Representative, Student Senate, NJIT

Apr 2025 – Present

Elected to represent **2,000+** CS undergraduates; attended weekly Senate meetings, led peer feedback initiatives, collaborated with faculty on curriculum, and organized academic events.

### Vice President of Events, AIS, NJIT

Jan 2025 – May 2025

Managed logistics for events with **1,000+** attendees — coordinated venues, vendors, and staffing.

### Secretary, NJIT Racquetball Club

Nov 2024 – Mar 2025

Organized racquetball tournaments for **100+** athletes and led weekly meetings to boost engagement.