SHREY VARSHNEY

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Education

VIT Bhopal University, Bhopal	**2022 - 2026**
B.Tech in Computer Science & Engineering	*CGPA: 8.80/10.0*
M.L. Khanna D.A.V. Public School	**2020 - 2022**
X, XII	*94.0%, 92.6%*

Technical Skills

Languages: Python, Java, C/C++, JavaScript

Core Concepts: Data Structures & Algorithms, OOP, DBMS

Technologies/Frameworks: React, Next.js (incl. 15), Node.js, Flask, FastAPI, Git, Docker, Cloudflare, Cloudinary, SQL, MongoDB, PostgreSQL, Drizzle ORM, Redis, GitHub Actions, Vercel

AI/ML: Workflow Modeling, Basic NLP, AI Integration,

Experience

Visakwik	**Remote**
Backend AI Engineer Intern	*March 2025 - Present*

- Spearheaded backend **AI integration** into the visa processing workflow.
- Reduced visa processing cost from $2 to **$0.02** per visa using optimized AI models.
- Implemented **AI-powered document searching** and analysis for faster information extraction.
- Engineered an automated **AI pipeline** for visa application processing across **32+** countries, drastically increasing efficiency and cutting down the average processing time by 60% per application.
- Integrated AI with agent browser extension for efficient **verification** and **accuracy** in form filling.

Projects

MarketPulse-AI: AI-Powered Stock Sentiment Analysis   <u>Live Here</u>

- Built using **React & Next.js 15** for modern **SSR** with **Flask (Python)** Backend API endpoints.
- Analyzed **market sentiment impact** on stock prices using AI processing of real-time financial news.
- Implemented **Redis** for efficient caching of sentiment scores, news data, and user sessions.
- Configured **role-specific access** controls using **Auth0**, distinguishing feature accessibility for free-tier and pro users.
- Leveraged **AI** for keyword analysis on financial headlines to quantify the impact of specific events on stock and market performance, enabling data-informed investment insights.

Little Champs ChatApp: Preschool Communication Platform   <u>Live Here</u>

- Developed a **real-time announcement platform** improving parent-teacher engagement.
- Used **React.js**, **Next.js**, **Drizzle ORM**, **PostgreSQL** for role-based access serving 50+ daily users.
- Enabled real-time sharing of photos, videos, and activity updates from teachers to parents.
- Deployed on **Vercel**, achieving >40% faster load times and improved scalability.

SheetSync: Cloud-based Google Sheets API   <u>Source Code</u>

- Built a cloud service automating **Google Sheets** insertions, boosting efficiency by 40%.
- Engineered to handle >100k requests, achieving 50% reduction in response times during peak loads.
- Utilized **Cloudflare Workers** via Wrangler for streamlined serverless JavaScript execution.
- Automated deployment to Cloudflare Workers using **Wrangler CLI** within a **CI/CD** script.

Certifications

- **NPTEL Cloud Computing — (Elite - Top 5%)** — Indian Institute of Technology, Kharagpur
- **AWS Academy Cloud Foundations** — Amazon Web Services Training and Certification
- **AWS Academy Cloud Architecting** — Amazon Web Services Training and Certification

Achievements

- **Flipkart GRiD 5.0** - Competed among 210,762 learners across the nation. Cleared Round 1 and Qualified for Round 2.
- **Guardian on LeetCode** - Ranked in the top 0.99% globally with a 2219 rating. Achieved **Rank 35 out of 34,958** in Biweekly Contest 150.

Coding Profiles

- **LeetCode** - Solved 500+ coding problems.
- **GeeksForGeeks** - Solved 100+ coding problems.

Leadership

ReImagine Hackathon

Team Leader

- Led a team of 4 members, coordinated project development, and qualified for Round 2.