Shreyal Sharma

Kinnelon, NJ (willing to relocate) | 862-832-1825
Shreyal11feb@gmail.com | linkedin.com/in/shreyalsh | github.com/shreyal-sharma | ss-portfolio-livid.vercel.app

Education

New Jersey Institute Of Technology *Expected Graduation: May 2026*

- Bachelor of Science in Computer Science | Accelerated Master's in AI | GPA: 3.7 | Dean's List Scholar
- Recipient of **NJIT Academic Excellence Scholarship** and **Freshmen Highlander Scholarship**
- Python, Data Mining, Data Structures and Algorithm, Operating Systems, Object-Oriented Programming

Skills

Technical Skills: Python, Java, JavaScript, C++, React, SQL, Chapel, HTML/CSS
Tools & Frameworks: Scikit-learn, Material UI, OpenAI, Git, GitHub, Jupyter Notebook, VSCode, Linux (Ubuntu)
Certifications: Python Certified Associate Programmer, Technical Interview Prep: CodePath
Professional development: Eboard of Kids of Code, Vector, Member of Women in Computing, Rewriting the Code, Codepath

Experience

Research Assistant, Epimedium Crowdsourcing Project *Newark, NJ*
Department of Data Science, NJIT *July 2024 – Present*

- Enhanced role-expertise mapping accuracy by 70% in a cancer-related scientific knowledge project by applying advanced data filtering techniques on Excel with Pandas library.
- Developed a Python script in Jupyter to automate the analysis of Cosine Similarity scores for 3 large datasets, leveraging Scikit-learn, reducing manual processing time by 40% and increasing insights accuracy by 25%.

Research Assistant, Neuroscience Connectome Project *Newark, NJ*
Department of Computer Science, NJIT *May 2024 – August 2024*

- Analyzed research papers to select and implement optimal algorithms (FAST, ESU) for motif network detection
- Detected patterns in human brain's network using Arkouda for scalable data analytics and visualization, enhancing the ability to process and analyze large-scale brain datasets
- Optimized performance through parallel programming with C++ and Chapel, increasing efficiency by 62%

Computer Science Tutor *Remote*
Blissful Coding *March 2024 - June 2024*

- Led a 6-week tutoring program, teaching Python to 24 students in grades 6-8, and dedicated 2 hours each week to peer-to-peer mentorship
- Collaborated with 4 instructors to deliver a curriculum focused on advanced Python topics, enhancing students' understanding and coding skills

Projects

AI Customer Support chatbot (*Node.js, OpenAI API, Material UI, Vercel)* *August 2024*

- Developed an AI-powered chatbot designed to assist users with interview preparation
- Implemented a server-side route using Next.js for chatbot to efficiently handle user queries, ensuring seamless chat interactions by leveraging GPT-3.5-turbo for accurate and responsive support
- Optimized the API calls to reduce response latency by approximately 15%, ensuring faster and more reliable user interactions

Pantry Tracker *(Next.js, Material UI, Firebase)* *August 2024*

- Built a a responsive CRUD interface manufacturing inventory system using Next.js, Material UI, and Firebase
- Designed the frontend with Material UI, and integrated Firebase for real-time data storage and retrieval

Compiler for Fortran Language *(C++)* *February 2024*

- Developed a compiler for a Simple Fortran Language in C++, including a lexical analyzer and parser.
- Reduced debugging time by approximately 30% through comprehensive error messaging, which enhanced the reliability and usability of the compiler