Annanya Jain

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EDUCATION

Stevens Institute of Technology   Hoboken, NJ
Bachelor of Science in Computer Science   *Expected May 2026*
- **GPA: 3.82/4.0**
- **Activities:** Launchpad@Stevens (Entrepreneurship), Stevens Women in Computer Science, Chess - Gold Medal
- **Academic Honors:** Global Scholarship, Dean's List: Fall 2022, Spring 2023, Fall 2023, Spring 2024
- **Coursework:** Data Structures, Algorithms, Database Management, Systems Programming, Discrete Structure, Linear Algebra, Principles of Programming, Intermediate Statistics, Differential Equations, Macroeconomics.

TECHNICAL SKILLS

Programming: Java, Python, C, C++, Scheme, HTML, CSS, R, ARM Assembly, OCaml
Databases: MySQL, Oracle SQL, PostgreSQL   **Libraries**: Pandas, NumPy, Matplotlib
Software: VS Code, Jet Brains IDE's, MS Office, Freshworks CRM
Concepts: Software Engineering, Machine Learning, Backend Development, Agile Methodologies

EXPERIENCE

Course Assistant – Algorithms: Incoming Fall 2024   Sept 2024 – Dec 2024
Stevens Institute of Technology   *Hoboken, NJ*

Software Developer Intern   June 2024 – Present
ENTRADA Ventures Group, LLC   *Manhassset, NY*
- Collaborated to develop a Large Language Model focusing on patient engagement and integrated sentiment analysis algorithms to enhance personalized healthcare solutions and CRM programs.
- Conducted data analysis, utilized APIs for data retrieval, and implemented MongoDB for efficient data storage.
- Authored a detailed Business Requirements Document to align project specifications with organizational goals

Undergraduate Research Assistant   Jan 2024 – June 2024
Stevens Institute of Technology   *Hoboken, NJ*
- Examined ChatGPT's contribution to code quality and improvement by analyzing various refactoring methods.
- Implemented algorithms in Python and plugins to identify potential data leaks in training and testing datasets.
- Utilized expertise in Java and Object-Oriented Programming to explore the extract method refactoring, focusing on optimizing code structure and readability while ensuring functionality and efficiency.

Undergraduate Research Assistant   June 2023 – May 2024
Stevens Institute of Technology   *Hoboken, NJ*
- Analyzed the dynamic relationship between journalism job postings, AI skill demands, and industry employment changes over the past decade.
- Consolidated diverse data sets using PostgreSQL and implemented optimization methods.
- Applied R's Plotly library to create dynamic visualizations for consolidated data, enabling in-depth analysis.

Learning Technology Assistant   Aug 2023 – June 2024
Stevens Institute of Technology   *Hoboken, NJ*
- Diagnosed a broad range of technical issues and optimized audiovisual equipment to ensure smooth networking.
- Collaborated on team projects, showcasing adaptability and LAN/TCP/IP competency for smooth tech support.

PROJECTS

Health Advisor Chatbot | *Streamlit, LangChain, CTransformers, Python*   June 2024
- Developed a conversational AI chatbot using Streamlit, LangChain, and CTransformers, fetching and cleaning data from Reddit API with PRAW, BeautifulSoup, and Pandas.
- Implemented text splitting and embeddings, optimizing retrieval with FAISS for efficient and accurate responses.
- Enhanced performance by addressing token management issues and understanding the full architecture, from data preprocessing to response generation.

Water Jug Puzzle Solver: Algorithmic Problem-Solving with Breadth-First Search | *C++*   Nov 2023
- Engineered an advanced C++ program, elegantly mastering the breadth-first search and backtracking algorithm to tackle the three-jug water puzzle through optimal problem solving.
- Strategically utilised dynamic memory allocation and pointers to manage the evolving state space, ensuring efficient memory usage during the exploration of potential solutions.

Music Recommender System | *Python*   Dec 2022
- Designed and developed a Python program with a combination of features for capturing user artist preferences.
- Implemented a recommendation system for personalized artist suggestions based on user choices.
- Incorporated knowledge in design, algorithmic thinking, recursion and object-oriented programming.

Library Management System | *Python, MySQL, Matplotlib, NumPy, Pandas*   May 2022
- Developed a Python-based Library Management System with MySQL backend.
- Managed library operations efficiently using NumPy and Pandas, leveraging Matplotlib for data visualization.