

# Arjun Singh

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## EDUCATION

New York University, College of Arts and Science | New York, NY

January 2023 - December 2025

Bachelor of Arts in Computer Science, Minor in Economics

*Relevant Coursework:* Object Oriented Programming; Data Structures; Operating Systems; Artificial Intelligence; Applied Web Technology; Money and Banking; Urban Economics; International Economics

University of California, Davis | Davis, CA | *Transferred to NYU*

Sep 2021 - Dec 2022

## WORK EXPERIENCE

EXL Services, *Forward Development Engineer* | New York, NY

June 2024 - Present

- **Agentic AI (Fall 2025):** Building a Large Language Model for contextualizing internal memos.
- **YouTube Influencer Analysis Tool (Summer 25):** Built an end to end NLP pipeline to analyze sports-related videos using two Google APIs; applied BERTopic modeling, fine-tuned spaCy NER models, and developed fan engagement insights through plotly dashboard visualizations. Processed ~470K comments, and 3400 videos for deep textual analysis and provided functionality for clients to identify and act on emerging trends and narratives across digital content.
- **Automated Ticketing Data Pipeline (Summer 24):** Designed and deployed a scalable data pipeline integrating APIs from three ticketing platforms; enabled actionable insights that improved ad targeting and drove a projected 10% annual increase in ticket sales for two national sports leagues.

Teleperformance, *Software Developer* | India

July 2022 - August 2022

- **Hotel Experience Intelligence Platform:** Developed an enterprise product for 20 hotel chains to assess property performance using structured and unstructured data from guest reviews and ratings; implemented machine learning algorithms for sentiment analysis, loyalty scoring, churn prediction, and social media listening.
- Visualized insights through intuitive dashboards, enhancing the experience of 40 million guests annually and enabling auditors to easily identify key areas for operational improvement.

Roots Capital Management, *Technology Intern* | Davis, CA

December 2021 - May 2022

- **Financial Data Automation Tool:** Automated internal administrative tasks and data collection by developing a Python-Selenium web scraping program to track economic performance of 500 companies' stocks; accelerated financial analysis and saved approximately 3,000 manual hours annually.

## PROJECTS

DTCC Future of Coding with Artificial Intelligence (NYU VIP Project)

January 2024 - Present

- Researching the feasibility of GenAI as a developer's assistant to understand the best use of AI in Development
- Prompting GPT to create electrical circuits using Python's Schemdraw library and evaluating the response with test cases as well the robustness of GPT in revising its programs with feedback.

## LEADERSHIP AND EXTRACURRICULAR EXPERIENCE

NYU Student Technology Center, *Technology Assistant*

January 2025 - Present

- Providing in person desktop support to faculty and students by troubleshooting issues with hardware and software.

NYU Run Club

January 2023 - Present

- Coordinating bi weekly runs and training sessions for 50+ members of the NYU Run Club. Assisting in community events such as trail hikes and volunteering. Representing NYU in competitive runs organized by NYCRuns.

NYU Student Athletic Facilities, *Facilities Attendant*

January 2024 - May 2024

- Ensured proper operation of the athletic facilities through a mix of physical and administrative tasks that maintain the safety and functionality of the facilities and NYU community.

## SKILLS AND CERTIFICATIONS

**Development and Data Handling:** C++, Java, Python, SQL, Pandas, MongoDB, Tableau, Plotly, Javascript, Node, Express, React, HTML, CSS, APIs, Machine Learning, GenAI, Natural Language Processing, Topic Modeling, Data Structures, Algorithm Development, Github, DevOps, AWS, Web Scraping, Forward Development Engineering

**Market Based:** Problem Solving, Product Development, Product Presentation

**Certifications:** Data Structures and Algorithms at LinkedIn, GenAI Software Development at Coursera, Artificial Intelligence at Stanford University, Women and Leadership at Brown University