

SURYA NEDIYADETH

Jersey City, New Jersey
(Available for Full Time Opportunities)

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Education

Master of Science in Computer Science | Stevens Institute of Technology
(w/ Graduate Certificate Program in Machine Learning)

Jan 2022 – Dec 2023
Hoboken, NJ

Relevant courses: Agile Methods for Software Dev, Human-Computer Interaction, Deep Learning, Artificial Intelligence, Natural Language Processing, Database Management Systems II, Intro to Python for Financial App, Intro to Bloomberg & Thomson-Reuters

B. Tech in Computer Science and Engineering | Alliance University

Aug 2017 – Aug 2021
Karnataka, India

Relevant courses: Data Structures and Algorithm, TCP/IP, OOPs using C++, Compiler Design (Unix)

Technical Skills

Programming/Scripting Languages: Python, Java, R, SQL, C, C++

Database Services: MySQL, MongoDB

Web Development: HTML, XML, CSS, Bootstrap, JavaScript

Tools, Libraries and Framework: GIT, AWS, TensorFlow, Keras, Pandas, NumPy, Scikit-learn, SciPy, Matplotlib, OpenCV, Dlib, Flask, Node.js, React, Django, Pygame

Academic Projects

MQC:

Feb 2023 – May 2023

- Designed and implemented the MQC (Multi-Feature Query Compiler) in Python 3.8 to optimize Ad-Hoc OLAP queries in SQL. Integrated PostgreSQL 15, strategically leveraging key packages reducing development time by 20%.
- Collaborated with a cross-functional team of two to pioneer innovative data manipulation techniques within MQC, simplifying intricate query expressions. The project eliminated the necessity for multiple sub-queries and joins, resulting in a remarkable 30% reduction in query execution times.

critiQs:

Feb 2023 – May 2023

- Developed and led the front-end development efforts for critiQs, a cinephile-focused web app, demonstrating expertise in creating responsive and visually appealing interfaces using HTML, CSS, Bootstrap, JavaScript, and jQuery.
- Collaborated effectively with the team of five to integrate the TMDb API, enriching the user experience with comprehensive movie details. Contributed partially to backend connectivity using Django and SQLite.
- Delivered the project within the 3.5-month timeline, garnering excellent user feedback from 15 reviewers, receiving a 95% satisfaction rate.

Experience

Graduate Student Course Assistant | Stevens Institute of Technology, NJ

Sep 2022 – Dec 2022

- Fulfilled multiple roles including tutor, grader, course preparer, and assignment designer, enhancing the learning experience for a class of 89 students.
- Enhanced student comprehension and project success rates through dedicated weekly office hours, resulting in a 10% uplift in class grades and a 15% increase in successful data-related project submissions.

Web Development Intern | Ethical Edufabrica Pvt. Ltd., Karnataka

Aug 2020 – Oct 2020

- Completed professional web development training, acquiring skills in HTML, SQL, PHP, CSS, and Bootstrap.
- Designed and implemented a "Protein Database Management" project, meeting specified requirements and utilizing learned languages and frameworks.

Research Intern | National Institute of Technology Rourkela, Odisha

Jun 2019 – Jul 2019

- Advanced "Session-based Recommendation Systems" by implementing and refining a GRU-based RNN model, achieving significant improvements over traditional methods through dataset experimentation.
- Gained experience in Item-based Collaborative Filtering algorithms to complement advanced session-based recommendation systems.

Volunteer Experience

Multi-Project Fellow | Third Estate Ventures, Inc., NY

Feb 2024 – Present

- Led the end-to-end development of data-driven projects, from manipulation and analysis to interactive dashboard creation for real estate insights, employing machine learning for trend identification and business metric definition, leveraging Python and SQL for enhanced strategic decision-making.

Certifications

J.P. Morgan Software Engineering Virtual Experience on Forage

Sep 2023

- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

Goldman Sachs Job Simulation on Forage

Sep 2023

- Successfully cracked leaked encrypted passwords using hashcat, demonstrating proficiency in cybersecurity and cryptography.
- Identified the hashing algorithm used (MD5) and provided recommendations for enhancing password protection policies.
- Acquired skills in Cryptography Basics, showcasing expertise in data security.
- Demonstrated Password Best-Practice knowledge, ensuring strong authentication methods.
- Executed Password Cracking techniques, highlighting proficiency in security testing.

Bloomberg Market Concepts (BMC) Certification, Bloomberg L.P.

Nov 2023

- Comprehensive understanding of financial markets across Economic Indicators, Currencies, Fixed Income, and Equities.
- Analysed economic cycles, currency market dynamics, bond market valuation, and equity market strategies.
- Proficient in over 70 Bloomberg Terminal functions for data analysis and interpretation within financial services.