

Anav Sharma

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EDUCATION

Purdue University

Bachelor of Science, Computer Science (Minor: Mathematics, Statistics)

West Lafayette, IN

Aug. 2020 – May 2024

- Relevant Coursework: Analysis of Algorithms, Data Structures & Algorithms, Systems, Probability, Real Analysis, Computer Architecture, Linear Algebra, Discrete Mathematics, Multivariate Calculus, C Programming

EXPERIENCE

Societe Generale

Technology Summer Analyst

New York, NY

Jun. 2023 - Present

- Developing additional features for the fixed income (FI) and interest rate derivatives (IRD) trading platform using Python, SQL, and internal/external APIs.
- Implementing data-driven monitoring and analytics for ~40,000 live data points to improve trading applications.

Integral Ad Science

Software Engineer Intern

New York, NY

Jun. 2022 – Aug. 2022

- Developed a backend REST API engine for generating actionable recommendations based on chart data using Java Spring Boot and Spring Cloud, Gradle, and Maven.
- Optimized backend workflow to allow for easier product integration for 200+ clients.
- Implemented integration tests using SQL and Spock testing for Groovy and Java to ensure robustness of code.

IMC Trading

Launchpad Program Participant

Chicago, IL

May 2022 – May 2022

- Analyzed and implemented market-making trading strategies over a 2-day program using in-house trading simulations, mathematical skills, and Python. Selected as 1 of 28 students to participate in the program.

WhizAI

Machine Learning Intern

Somerset, NJ

May 2021 – Aug. 2021

- Developed data visualization models with decision trees using XGBoost in Python.
- Worked with AWS SageMaker to develop, train, and manage models.
- Used the Scikit-learn machine learning library (Python-based) to evaluate data visualization models.
- Trained visualization models using Deep Java Library (DJL) to determine if it was more feasible than SageMaker.

Merck & Co., Inc.

Full-Stack Developer Researcher

West Lafayette, IN

Aug. 2020 – May 2021

- Developed a mobile application with React Native to communicate biometric data collected by fitness watches.
- Used Node.js and Express to develop a REST API for back-end development.
- Collaborated with a team of 20 engineers under the Agile Software development cycle for the entire school year.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, R, SQL, JavaScript, HTML/CSS

Technologies/Frameworks: Pandas, NumPy, scikit-learn, XGBoost, Spring, Maven, Spock, Docker, ReactJS, Node.js, Amazon SageMaker, Deep Java Library (DJL), DL4J

TECHNICAL PROJECTS

HTML Parser – C Programming Language

- Created an application that parses through and processes 50+ supported tags and attributes in an HTML file and outputs only the plain text within the file.
- Added various additional features including displaying distinct word and frequency count, and accounting for special HTML entities. Dealt with syntactical errors, improper nesting, and invalid tag matching present in the HTML file.

LEADERSHIP/INVOLVEMENT

Strive Forward

Volunteer Mentor

Princeton, NJ

Aug. 2018 – Present

- Provided mental and emotional support for children of divorce by getting them involved in various activities (selling T-shirts, creating a business plan, social media marketing) and sharing my personal experiences with them.