Arnav Daryani

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Education

Purdue University Aug 2023 – May 2026
Bachelor of Science in Computer Science, Minor in Mathematics, GPA: 3.83/4.00 *West Lafayette, IN*

- **Relevant Coursework:** Object-Oriented Programming, Discrete Math, Data Structures and Algorithms, Computer Architecture, Linear Algebra, Multivariate Calculus, Introduction to Statistics

Experience

Undergraduate Researcher July 2024 – Present
Purdue VIP *West Lafayette, IN*

- Working with Prof. Delp to develop a mobile phone application that captures images of the scene and extracts information from them using machine learning.

Software Engineer Intern May 2024 – Present
Ciena *Gurgaon, India*

- Developed Python scripts to automate the testing of IS-IS routing protocol, significantly reducing manual testing efforts and improving test accuracy.
- Configured and optimized IS-IS routing protocol to support IPv6, ensuring seamless integration and efficient routing in dual-stack environments.
- Converted existing test cases to IPv6 versions, enhancing the robustness and coverage of the test suite.

Data Science Researcher Aug 2023 – May 2024
Caterpillar Inc. *West Lafayette, IN*

- Created a robust data pipeline for 110+ data sources, utilizing Pandas and NumPy to develop a master table.
- Evaluated data quality and applied data imputation techniques to enhance the effectiveness of machine learning model training.
- Employed Python's PyCaret time series forecasting method to train a machine learning model enabling predictive risk analytics.

Software Developer Aug 2023 – May 2024
Hack The Future *West Lafayette, IN*

- Partnered with YWCA non-profit to develop a robust scheduling website for comprehensive kitchen scheduling and management using MERN stack
- Developed an intuitive and responsive user interface with React.js, integrating Material-UI for a consistent design.
- Utilized Node.js for the back-end development, creating a scalable and efficient server.
- Integrated MongoDB for the database, providing a flexible and scalable solution for data storage.

Projects

BudgetBuddy | *MongoDB, Express, React.js, Node.js, Chart.js* May 2024 – June 2024

- Developed a user-friendly web application focused on streamlining expense tracking and management.
- Implemented features for adding, editing, deleting expenses, and organizing them into categories.
- Utilized Chart.js for interactive charts and graphs to visualize expense data and summaries.

Stock Trend Predictor | *Tensorflow, Keras, pandas, NumPy, Matplotlib* March 2024 – April 2024

- Created an interactive application using TensorFlow and Keras to predict stock prices with an LSTM neural network.
- Integrated data handling and visualization tools, including pandas, numpy, yfinance, and matplotlib, to preprocess data and visualize historical stock prices and model predictions.
- Developed a user-friendly interface with Streamlit, enabling users to fetch stock price data from Yahoo Finance and obtain future stock price predictions.

Technical Skills

Languages: Java, C, C++, Python, Typescript, JavaScript, HTML/CSS, R
Frameworks/Tools: React.js, Node.js, Express.js, Flask, Streamlit, Material-UI, Git, Firebase, Linux, MongoDB
Libraries: pandas, NumPy, Tensorflow, Matplotlib, Scikit-learn, Seaborn