

# Shrinivas Venkatesan

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## Objective

Sophomore in Purdue CS and DS pursuing the CS Continuing Student Scholarship

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## Education

**Purdue University – West Lafayette, Indiana**

May 2025

**B.S. Computer Science Honors (Machine Intelligence and Database and Information Systems)**

GPA: 3.84/4.0

**B.S. Data Science, Minor in Mathematics**

**Related Coursework:** OOP in Java, Python Programming, Programming in C, Linear Algebra, Statistics with R, Discrete Mathematics, Computer Architecture, Data Structures and Algorithms, Systems Programming, Probability Theory

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## Experience

**The Data Mine – Purdue University**

August 2022 – December 2022

**Undergraduate Data Science Researcher – Nationwide Mutual Insurance**

- Collaborated with 15 students in an Agile work environment to find applications of weather data for insurance needs, as a part of The Data Mine Corporate Partners program
- Designed a U-Net model in Python using the PyTorch Library that used images of weather data along with other weather variables such as wind velocity, altitude, and temperature to predict the premium amount for a particular location

**Altimetrik Corp. – Southfield, Michigan**

May 2022 – July 2022

**Associate Engineer Intern – Product and Platform Engineering**

- Developed a Random Forest Classifier ML model that presents the user with the probability of their story being completed within a sprint and the probability of it spilling over into the next sprint
- Built a ReactJS UI that allows the user to access the metrics for a particular sprint using the above model and offers diagnostic tips to improve their story completion percentages
- Python Libraries Used: Pandas, NumPy, Matplotlib, SciKit Learn: Tfidf Vectorizer, KMeans Clustering, MinMax Scaler, Train Test Split, Random Forest Classifier, and Confusion Matrix

**BoilerMake Executive Board – West Lafayette, Indiana**

March 2022 – Present

**Sponsorship Team Member**

- Reached out to talent acquisition staff at around 350 different companies to get the financial backing necessary to organize a 48-hour hackathon, with over 650 participants from 164 different colleges and 49 different majors
- Accrued over \$100,000 for the past two editions of our hackathon, BoilerMake IX and BoilerMake X

**Panera Bread – West Lafayette, Indiana**

February 2022 – Present

**Student Food Service Worker**

- Processed mobile orders, operated the cash register, cooked sandwiches, drinks, and salads, and maintained high levels of customer satisfaction
  - Prepared more than a 100 different menu items and served close to 600 customers every lunch and dinner rush hour period
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## Projects

**Expenses App**

July 2022

- Built an expenses app in ReactJS that presents a monthly and yearly breakdown of the user's expenses using bar charts.

**Purdue Meal Finder**

September 2021 – December 2021

- Developed a Purdue Meal Finder App using Flutter that enables the user to view the dining hall that had the most options for them based on their dietary restrictions

**Quiz Management Tool**

November 2021 – December 2021

- Designed a quiz portal GUI in Java with three people that incorporated real-time updates and data persistence using networking and concurrency and allowed several teachers/students to login, create/take quizzes, and view student reports

**Matrix Mathematics**

March 2020 – June 2020

- Created a GUI using Python that performs basic mathematical operations on two inputted matrices of any dimensions
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## Skills

**Languages Known:** Python, Java, C, C++, R, Dart, HTML, CSS, JavaScript, React, LaTeX

**Development Environments:** IntelliJ, VS Code, Android Studio, Flutter, GitHub, BitBucket, JupyterLab, Unix

**Additional Skills:** Data Analysis, Data Visualization, Statistical Inferencing, Agile Methodologies, DevOps

**Certifications:** CITI Program – Responsible Conduct of Research, CITI Program – Conflicts of Interest