

# Shrinivas Venkatesan

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## Objective

Sophomore in Purdue pursuing Summer 2023 Software Engineering and Data Science internships.

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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 purposes
- 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

- Prepared more than a 100 different menu items and served close to 600 customers every lunch and dinner rush hour period
  - Achieved several hourly sales records by operating the cash register, processing mobile orders, and making orders in an efficient manner while maintaining high levels of customer satisfaction
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## Projects

### Portfolio Website ([shrinivasvenkatesan.com](https://shrinivasvenkatesan.com))

December 2022 – Present

- Designed a fast and simple ReactJS website hosted on Netlify that displays my CS projects and skills and enables the user to directly get in contact with me using the HeroTofu Forms API

### 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

- Implemented 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