

Shrinivas Venkatesan

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Education

Purdue University – West Lafayette, IN

May 2024

B.S. Computer Science (Concentration: Machine Intelligence) and Data Science, Minor in Mathematics

GPA: 3.88/4.00

- **Relevant 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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Skills

Languages Known: Python, Java, C, C++, React, JSON, R, Dart, HTML, CSS, JavaScript, Bash

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

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

Experience

Software Engineer Intern

May 2023 – Present

ZF North America, Inc. – Northville, Michigan

- Leveraged an OpenCV model to generate JSON messages with coordinate data for vacant parking slots from vehicle video files
- Built a mobile and web interface through Flutter and React to show available parking slots to the client using OpenStreetMaps
- Deployed Python scripts to simulate 20 common crash scenarios based on the GIDAS report in dSPACE AutomationDesk

Undergraduate Teaching Assistant – Computer Science

March 2023 – Present

Purdue University Department of Computer Science – West Lafayette, Indiana

- Conducted help room sessions offered to 800+ students, providing guidance on topics in Java, C, and Discrete Mathematics
- Showcased effective interpersonal communication skills by simplifying complex CS principles for students
- Garnered consistent positive feedback from students, earning a final rating of 4.75/5 for delivering engaging help room sessions

Sponsorship Team Lead

March 2022 – Present

BoilerMake Executive Board – West Lafayette, Indiana

- Managed a 7-person sponsorship team and contacted 350 different companies to secure the finances for a 36-hour hackathon
- Raised over \$100,000 for the past 2 years of BoilerMake through strong communication techniques and corporate partnerships
- Attracted around 450 hackers and 15 different companies from various industries, making the hackathon vibrant and engaging

Undergraduate Data Science Researcher – Nationwide Mutual Insurance

August 2022 – December 2022

The Data Mine – Purdue University, West Lafayette, Indiana

- Collaborated with 15 students in an Agile work environment to find applications of weather data for insurance purposes
- Designed a U-Net model utilizing the PyTorch Library to predict the premium amount for any location in the United States
- Implemented a data-driven solution that involved images of weather patterns, wind velocity, altitude, and other weather variables

Associate Engineer Intern – Product and Platform Engineering

May 2022 – July 2022

Altimetrik Corp. – Southfield, Michigan

- Developed a Random Forest ML model with 85% accuracy to predict story completion and spill-over probability for sprints
 - Built a user-friendly ReactJS UI offering valuable recommendations for optimizing story completion rates based on the model
 - Leveraged API calls to integrate the model into the Jira diagnostics toolkit offered by the company to 5000+ practitioners
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Projects

Portfolio Website (shrinivasvenkatesan.com)

December 2022 – Present

- Published a ReactJS website hosted on Netlify, presenting my CS projects, skills, and expertise in a fast and intuitive manner
- Incorporated the HeroTofu Forms API into the website, allowing users to directly contact me and inquire about my work

Expenses App

July 2022

- Created an Expenses App in ReactJS, showcasing monthly/yearly breakdowns of user expenses through engaging bar charts
- Presented comprehensive expense analyses, allowing users to track and manage their financial information effortlessly

Purdue Meal Finder

September 2021 – December 2021

- Developed a Flutter-based Purdue Meal Finder App, allowing users to easily access information about dining halls on campus
- Integrated the Purdue Dining API to offer real-time recommendations for dining hall choices based on user dietary restrictions

Quiz Management Tool

November 2021 – December 2021

- Implemented a quiz portal GUI in Java with 3 other people, enabling seamless, real-time teacher-student collaboration
- Incorporated data persistence, live updates, and networking capabilities to enhance the overall user experience