Shrinivas Venkatesan

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Education

Purdue University – West Lafayette, IN   **May 2025**
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

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

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

Software Engineer Intern   **May 2023 – August 2023**
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 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

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 contact me and inquire about my work directly

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 access information about dining halls on campus easily
- 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