

KRITIK SIVACHITRAVEL

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🇺🇸 **Citizenship:** USA

Education

The Pennsylvania State University

University Park, PA

Bachelor of Science in Computer Science

Aug. 2022 – May 2026

- **Minors:** Mathematics, Engineering Leadership and Development
- **CGPA:** 3.52 / 4 – As of Fall 2024
- **Dean's List:** Fall 2022, Fall 2023, Fall 2024

Relevant Coursework

- Data Structures
- Algorithms
- Systems Programming
- OOP with Web
- Discrete Mathematics
- Machine Learning
- Digital Design

Experience

The Pennsylvania State University

Aug 2024 – Present

Mathematics Proctor

University Park, PA

- Monitor exam testing sessions, ensuring a fair and distraction-free environment for students.
- Assist in enforcing academic integrity policies during exams and address student queries when necessary.

The Pennsylvania State University

Aug 2024 – Present

Mathematics Learning Assistant

University Park, PA

- Assist students with in-class problem-solving and answer their queries during lectures.
- Conduct weekly review sessions to reinforce mathematical concepts and improve student understanding.
- Work closely with faculty members to provide support in teaching and evaluating student performance.

Projects

Hotel Management Application | *Python, MySQL, CSS, JavaScript*

Feb 2022

- Developed a real-time hotel management application using Python and MySQL for back-end along with CSS and JavaScript for front-end, focusing on efficiency and ease of use.
- It was able to manage real time bookings for accommodations and table reservations in a hotel with the booking data stored in databases using MySQL.
- Designed and developed the user interface with CSS and JavaScript emphasizing user experience and responsiveness.

Breast Cancer Growth Detection | *ML, NumPy, Pandas*

Sept 2022

- Developed and implemented a Random Forest machine learning model that can detect the growth of breast cancer using multiple factors focusing on accurate predictions and real world implementation.
- Utilized a pre-processed dataset of 6500 entries to help the model learn the factors and respective outcomes.
- Leveraged libraries like NumPy, Pandas, and Scikit-learn for data preprocessing, feature engineering, model training, and performance evaluation.
- Applied model optimization techniques including regularization, gradient descent, and K-Fold cross-validation, enhancing accuracy and performance across datasets.

Personal Portfolio Website | *HTML, CSS, JavaScript*

Jun 2024

- Developed a creative personal portfolio website that seamlessly displays my knowledge and involvement in the field of computer science.
- Used handy tools like CSS and JavaScript to ensure smooth and eye catchy interface.
- **Link to the website:** 🌐 [Kritik's Personal Portfolio Website](#)
Only compatible with Desktop/Laptop

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL

Math: Multivariable Calculus, Statistics and Probability, Matrices, Linear and Vector Algebra

Technologies/Frameworks: Linux, GitHub

Leadership and Campus Involvement

- **Vice President** of the Penn State Cricket Club. Traveled and participated with the team in various tournaments and games with other universities with good success. Managed all travel logistics and team bonding along with finances and conducting practice training sessions.
- **Events Planning Chair** for the Information Sciences and Technology LLC, conducting successful events and managing all event logistics for the members of the IST LLC every weekend.