

Rudra Desai

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EDUCATION

The Pennsylvania State University – University Park

May 2028

Bachelor of Science in Computer Science

3.97/4.0

SKILLS

- **Languages:** Python, Java, JavaScript (ES6+), HTML5, CSS3, SQL.
- **Frameworks & Libraries:** React.js, Pandas, Matplotlib, Vite, NumPy.
- **Developer Tools:** Git, GitHub, Firebase (Authentication, Firestore), VS Code, IBM Z Xplore.
- **Data & Design:** Data Analysis, Qualitative Research, Adobe Creative Cloud (Express), Microsoft Excel.

CAMPUS & COMMUNITY INVOLVEMENT

Organizer & Communications Director, HackPSU

04/25 – Present

- Co-organized and executed a 24-hour hybrid hackathon for over 500 participants, managing all event-day communications, coordinating a team of 50+ volunteers, and scripting the opening/closing ceremonies.

WORK

College Of Engineering, Penn State

University Park, PA

Computer Science TA / Grader

08/25 – Present

- Graded 250+ programming assignments and exams weekly for CMPSC 131: Programming and Computation I: Fundamentals, ensuring consistency with course rubrics and collaborating with the instructor to provide constructive feedback that supported student learning.

School of Engineering Design and Innovation, Penn State

University Park, PA

Web Developer

11/25 – Present

- Selected to develop and maintain web infrastructure for a National Science Foundation (NSF) funded initiative, focusing on high-performance interfaces and accessibility compliance.
- Engineer responsive web modules using JavaScript and HTML/CSS, ensuring strict adherence to WCAG accessibility standards and University security protocols.

RESEARCH & PROJECTS

College Of Information Sciences and Technology, Penn State

University Park, PA

Undergraduate Research Assistant

05/25 – 08/25

- Cleaned and analyzed large educational datasets using Python and Excel to support research on technology-enhanced learning, ensuring data integrity across multiple phases of a study.
- Collaborated with a multidisciplinary research team to identify key performance indicators and visualize trends using Pandas, Matplotlib, and Excel.

Tourism & Leisure Lab

University Park, PA

Undergraduate Research Intern

10/25 – Present

- Conducted qualitative research including interviews, transcription, thematic coding, and analysis, contributing to the study of cultural heritage experiences in virtual environments.
- Investigated the intersection of fanship and tourism in digital spaces, focusing on virtual reality walking tours of UNESCO World Heritage sites.

Daily Expense Tracker

University Park, PA

React, Firebase, Vite, JavaScript

10/25 – Present

- Developed a serverless web application using React and Firebase to track personal finances with real-time data synchronization.
- Engineered a responsive dashboard with data visualizations to analyze monthly spending trends and category breakdowns.
- Abstracted backend logic into custom React hooks to handle CRUD operations and manage global application state.