

# 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 fandom 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.