

# Kanishka Chandrakar

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## EDUCATION

### Pennsylvania State University

*Bachelor of Science in Computer Science, Minor in Mathematics*

**GPA: 3.35/4.0**

*Dean's List*

State College, PA

Aug. 2021 – Dec. 2024

Fall 2023

## EXPERIENCE

### Mathematics Learning Assistant

*Pennsylvania State University*

Aug. 2023 – Dec. 2023

State College, PA

- Coordinating with instructors for enhanced in-class support, resulting in a 30% rise in participation and improved attendance.
- Delivering personalized academic support during office hours and guiding students, leading to improved assignment grades and overall course performance.

### Computer Science Learning Assistant

*Pennsylvania State University*

May 2022 – Dec. 2023

State College, PA

- Coached Programming and Computing in Python to over 100 undergraduate students.
- Evaluated 200+ codes, provided solutions, and conducted exam preparation sessions and graded exams.

### Academic Facilitator- Women in Engineering

*Pennsylvania State University*

Jan. 2023 – May 2023

State College, PA

- Developing and introducing individualized learning plans for student success, causing an increase in course completion rate.
- Facilitating group review sessions and monitoring student participation, thus enhancing overall participation rates.

### Customer Service Team Lead

*Pennsylvania State University*

Feb. 2022 – Dec. 2022

State College, PA

- Recruited 20 team members, conducted training sessions, and kept the team updated on product knowledge, which led to an increase in customer satisfaction rate.
- Administered communication between 37 student workers, 12 full-time workers, and 3 managers.

## PROJECTS

### 5 Stage 32-Bit MIPS Pipelined CPU | *Xilinx Vivado, MIPS*

Jan. 2023 – May 2023

- Leveraged advanced computer architecture concepts to implement a 5-stage MIPS Pipelined CPU, resulting in a 40% reduction in average instruction execution time.
- Implemented 5-stage pipelining architecture consisting of *Fetch, Decode, Execute, Memory and Write-back* stages.

### MDADM Utility File Management System | *Linux, C, Git, UTM*

Jan. 2023 – May 2023

- Introduced cache mechanism to a comprehensive file management system that significantly improved disk efficiency by 90%, and optimized and enhanced the system-level performance.
- Integrated TCP and UDP communication protocols, resulting in 30% faster file transfers and reduced downtime.

### Course Scheduler System | *Java, Apache Derby, NetBeans*

Aug. 2022 – Dec. 2022

- Designed organized databases that administrators could efficiently manage and update while providing students with seamless access to essential academic information.
- Maintained a user-friendly interface for faster registration rates, extra courses, and better academic planning.

### 2D Painting Tool | *Java GUI, Apache Derby, NetBeans*

Aug. 2022 – Dec. 2022

- Created an intuitive user interface that allowed users to easily load, manipulate, and draw 2D images and designs.
- Expanded advanced image manipulation features by 15% by applying adjusting color properties.

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, SQL, HTML/CSS, JavaScript, Scheme Verilog, MIPS, MATLAB

**Developer Tools:** Git, Google Collab, VS Code, Visual Studio, IDLE,

**Coursework:** Operating Systems, Machine Learning, Computer Organization and Design, System Programming, Data Structures and Algorithms, Digital Design, OOP with Web, Principles of Programming Languages