

# Soham Sharma

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## EDUCATION

### Purdue University

West Lafayette, IN

MS in Computer Science | **Expected Graduation:** May 2025

### The Pennsylvania State University

University Park, PA

BS in Computer Engineering | **Cumulative GPA: 3.53/4.00** | **Honors:** Dean's List (6 semesters)

## WORK EXPERIENCE

### Hero MotoCorp

Delhi, India (June 2021 - August 2021)

#### Software Engineering Intern

- **Developed a Python based Code** for automating the generation of General Sales Tax (GST) invoice on business platforms (Flipkart, Amazon) which Generates and uploads invoices on Hero's Business Content Management Platform.
- Accelerated the project to meet the necessities of this new Indian GST for the Company Sales to **ensure smooth GST compliance**.
- Streamlined and **optimized the generation and storage process** of GST data on the Company's internal database, resulting in a 40% reduction in data entry errors and saving an average of 100 hours per week.

### HCL Tech

Delhi, India (December 2018 - February 2019)

#### Web Repository Creator

- **Developed a Cloud Computing Node.js App**, named Vidjot, for jotting down ideas for future YouTube videos which made content creation better, relatable, and convenient.
- **Actively collaborated** with employees and created the app over long shifts.
- Completed a certified course and gained hands on experience in Node.js, Express and MongoDB

## PROJECT EXPERIENCE

### AI Based Dynamic Maze Solver

West Lafayette, Indiana (November 2023)

#### Base Coder and Designer

- **Developed a Python based Deep Q-Learning AI agent** to solve dynamically changing mazes.
- The Deep Q-Learning Network allows the AI agent to get an updated path towards the goal state.

### Remark Glass

University Park, PA, USA (May 2023)

#### Database Management for Glass Circulation

- Fabricated a new Database Management system for Remark Glass, using Python, SQL and GoDaddy's servers, to create a portable and convenient Database permitting reduction in paperwork and data entry errors by 90%.
- Transformed Remark's entire database structure allowing quick scanning and precise accounting.

### IBM Machine Learning Professional Certificate

Coursera, LA, USA (September 2022)

#### Multiple course completions with coding projects

- Achieved certifications in Exploratory Data Analysis, Supervised ML: Regression and Classification, Unsupervised ML, and Deep Learning and Reinforcement Learning.

### Voltage Controlled Audio Output Device

University Park, PA, USA (May 2021)

#### Primary Creator/ Circuit analyst of the Project

- Engineered a sophisticated circuit that effectively transformed voltage input from a device into an immersive audio signal, leveraging Potentiometers, Capacitors, and resistors, and integrating LED lights for accurate volume detection.

## SKILLS & INTEREST

**Skills:** Python, C, Verilog, MySQL, Pandas, Keras, Numpy, scikit-learn, JavaScript, HTML/CSS, Java

**Advanced Coursework:** AI, ML, Data Structures and Algorithm, Operating Systems