

# ABHISHEK SHARMA

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## Education

### Columbia College

Bachelor of Science — Majors : Computer Science

expected grad. December 2025

Columbia, MO

## Relevant Coursework

- Data Structures
- Advanced Programming
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Agile Software
- Development
- Discrete Mathematics II
- Calculus II

## Experience

### idTech

May 2023 – December 2023

Instructor

Campbell, CA

- Led virtual coding bootcamps focusing on Python, web development, and machine learning for 39 students.
- Guided the development of hands-on projects such as chatbots, dynamic websites, and predictive algorithms.
- Mentored students on best practices in software engineering, including code optimization and debugging.
- Integrated RESTful APIs and database queries into projects, demonstrating industry-grade implementation.

### Columbia College

Feb 2022 – Present

Computer Technician

Columbia, MO

- Automated deployment scripts for system updates, reducing setup time by 40%.
- Engineered solutions for faculty hardware needs, including bespoke workstation configurations.
- Collaborated with IT teams to implement network-wide optimizations and security updates.

### GR Manpower Pvt Ltd

May 2022 – August 2022

Online Operations Intern

Kathmandu, Nepal

- Developed a full-stack application with user authentication, inventory management, and real-time analytics.
- Integrated SEO best practices and analytics tools, increasing organic traffic by 45%.
- Refactored legacy codebases to improve maintainability and reduce technical debt.

## Projects

### Customer Support RAG Agent | Python, LangFlow, AstraDB, Streamlit

[GitHub](#)

- Built an AI-driven chatbot leveraging LangFlow API and AstraDB to deliver scalable, real-time user support.
- Optimized response times by integrating pre-trained models for natural language understanding.

### Flappy Bird AI | Python, Pygame, NEAT

[GitHub](#)

- Designed an AI agent using NEAT algorithms to dynamically adapt to increasing game difficulty.
- Performed data-driven analysis of AI performance, improving decision-making algorithms by 25%.

### QuadTree | C++, Data Structures

[GitHub](#)

- Engineered an optimized QuadTree structure to manage spatial data for real-time game environments.
- Reduced collision detection overhead by 60% through efficient data partitioning.

### Car Sales Website (Kachow) | JavaScript, PHP, HTML/CSS

[GitHub](#)

- Developed a feature-rich e-commerce platform with search filters, analytics dashboards, and responsive design.
- Integrated secure payment gateways and a scalable backend using PHP and MySQL.

## Technical Skills

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

Developer Tools: Jupyter, EMACs, Android Studio

Technologies/Frameworks: Linux, Tensorflow, Keras, React, GitHub, Notion

## Leadership / Extracurricular

### Computer Science Club

May 2016 – December 2018

President

Little Angels' School

- Organized a hackathon every six months for students to participate in a competitive and educational environment.
- Led team-based coding workshops and technical seminars to enhance collaborative programming skills.