

# NIRVEK PANDEY

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## EDUCATION

**University of California San Diego**  
Regents Scholar, Computer Science B.S.

La Jolla, CA 92092  
September 2022 - June 2026

### Relevant Coursework:

Data Structures, AI Search & Reasoning, Software Engineering, Computer Organization and Systems Programming, Object Oriented Design, Discrete Mathematics, Design and Analysis of Algorithms

**Cerritos High School**  
Computer Science Pathway

Cerritos, CA 90703  
August 2018 - June 2022

## WORK & LEADERSHIP EXPERIENCE

**Faculty Club at UCSD**  
*Food Catering and Back of House Specialist*

La Jolla, CA 92092  
October 2023 - Present

- Streamline food distribution in collaboration with multiple team members and managers.
- Engage and converse with guests to create a welcoming environment at events with 30-75 guests.
- Manage catering inventory for multiple events between, stockroom, kitchen, and event floors.

**Students Who Engage, Lead, and Learn**  
*SWELL Guide, Student Leader*

La Jolla, CA 92092  
July 2023 - Present

- Collect and analyze data on student involvement to automate records using APIs for CSE staff.
- Plan and host events and social gatherings to foster community among incoming CSE students.
- Mentor seventy-five-plus students to strengthen their study habits and improve mental health.
- Tested and deployed communication infrastructure to migrate platforms and streamline communication.

**Coding Power**  
*Volunteer Teacher*

Cerritos, CA 90703  
September 2021 - August 2022

- Collected data on schedules to coordinate multiple classes and lesson plans with various stake holders.
- Taught the basic concepts of object-oriented coding in Java to fifteen 8-14 year old students.
- Planned bi-monthly in-person events to increase student engagement outside of the classroom.

**Shree Pashupatinath Foundation**  
*Volunteer, Organizer*

Norwalk, CA 90650  
February 2012 - July 2022

- Facilitated cultural events and religious gatherings twice a year to increase cultural awareness.
- Supported two teachers in managing 20-30 students at a cultural and linguistic Nepalese school.

## PROJECTS

### 2048 Game Solver

April 2024

Used Python to create a pygame simulation for the online game 2048. Designed and implemented an advanced AI for the online game 2048, incorporating an Expectimax algorithm that strategically evaluates future game states; significantly improved decision-making process by integrating a custom heuristic function.

### Blackjack Optimizer

May 2024

Designed and implemented an advanced search algorithm for the card game Blackjack. Applied reinforcement learning through Markov Decision Trees and Monte Carlo Policies to compute best option.

## SKILLS

**Programming Languages:** Python, Java, JavaScript, HTML, CSS, React, C++  
**Languages:** English (Fluent), Nepali (Fluent), Spanish (Intermediate)

## AWARDS AND CERTIFICATES

### Students Who Engage, Learn and Lead (SWELL) Participant

September 2022 - June 2023

Connected with the campus community through workshops, built relationships with peers in CSE, and gained leadership skills through networking opportunities.