

# Abner Espinoza

## Software Developer

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🔗 abner-espinoza.github.io

📍 Los Angeles, California

## EDUCATION

### B.S. in Computer Science

University of California - Irvine

📅 2018 - Ongoing

GPA

4.0 / 4.0

- Dean's Honor List (Fall '18 — Spring '20)
- Active member of **Artificial Intelligence@UCI** and **Association for Computing Machinery@UCI**.

## EXPERIENCE

### Autonomous Systems Intern

Base 11

📅 2019 - 2020 📍 Irvine, California

Base 11 partners with industry and academia to launch technology in data analytics, autonomous systems, and advanced manufacturing.

- Used Python and the SunFounder API to implement a form of computer vision and basic autonomy in drones and compact cars.
- Developed a User Interface (UI) that displayed crucial diagnostic information real-time for autonomous compact cars.
- Worked closely with project managers to collect requirements and ensure project quality.

### Debate Finalist

Pacific Southwest Collegiate Forensics Association (PSCFA)

📅 03/2019 📍 Los Angeles, California

PSCFA organizes inter-collegiate debates in the Pacific Southwest area.

- Debated various robust topics and placed second in a tournament involving tens of colleges and hundreds of students.

## STRENGTHS

Hardworking, Reliable, and Communicable

Quick Learner and Critical Thinker

Cross-Cultural Leadership

## PROJECTS

### Pong AI

🔗 <https://github.com/abner-espinoza/pong>

- Trains an agent with stochastic Policy Gradients on Pong using OpenAI Gym.
- Uses the input frames of the game and the results of each round to train the Neural Network.
- Developed with help from AI@UCI mentors during a club workshop.

### Pathfinding Visualizer

🔗 <https://github.com/abner-espinoza/Pathfinding-Visualizer>

- Developed a Python application to allow users to visualize and interact with the A\* Search Algorithm.

### Sudoku Solver

🔗 <https://github.com/abner-espinoza/Sudoku-Solver>

- Developed a backtracking algorithm to find a solution to any solvable sudoku game and a stylish User Interface (UI) to compliment it.

### Personal Website

🔗 [abner-espinoza.github.io](https://abner-espinoza.github.io)

- Developed a basic personal website displaying my contact information and a resume download feature with HTML, CSS, and Javascript.

## LANGUAGES

English, Spanish Proficient

Python, C++, Java Proficient

HTML, CSS, Javascript Intermediate