

## Spencer Boggs

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### Education

#### CALIFORNIA STATE UNIVERSITY, LONG BEACH

BS in Computer Science. GPA: 3.5

Relevant Coursework: Data Structures, Algorithms, Discrete Structures, Object Oriented Development, Computer Architecture, System Programming, Digital Logic and Assembly Programming

Long Beach, CA

May 2027

#### POLYTECHNIC HIGH SCHOOL

High School Diploma, SAT: 1350

Captain of the FRC Robotics Team

Long Beach, CA

June 2023

### Technical Skills & Projects

**Programming:** C++, Python (Flask), Java, JavaScript (Node.js, React.js), HTML, CSS

**Tools & Platforms:** Gradle, Maven, Docker, Windows, Linux (Ubuntu, Arch)

**Version Control:** Git, GitHub

**Package Managers:** npm, pip, Yarn, apt

**IDEs & Editors:** Visual Studio Code, IntelliJ IDEA, VIM

#### Video Transcriber

Developed a Python-based script to transcribe speech from video files (.mp4, .mov) and generate subtitles with precise timing. Converts video to .wav format, analyzes audio, and overlays subtitles directly onto the video. Utilized libraries such as Whisper for speech recognition, numpy for data handling, moviepy for video processing, and Pillow for subtitle rendering.

#### Pong Local Multiplayer

Developed a JavaScript-based local multiplayer Pong game utilizing the HTML5 Canvas. Implemented realistic physics for paddle and ball interactions, dynamic ball speed adjustments, and a retro CRT-style interface featuring scanlines and noise effects. Designed responsive controls for two players and integrated real-time score tracking.

#### GitHub Trend Analyzer

Built a Flask app to scrape and display trending GitHub repositories with details like stars, daily growth, and descriptions. Used BeautifulSoup for scraping, JSON for data storage, and HTML/CSS for a responsive UI, enabling sorting and dynamic updates.

### Leadership & Activities

#### Robotics Team 7042

##### Team Captain

Long Beach, CA

August 2022 - June 2023

- Led the team to the FIRST Robotics World Championship in 2023.
- Assisted in programming using Java and the WPILib framework to control key robot functions.
- Demonstrated leadership, teamwork, and problem-solving skills in a highly competitive, fast-paced environment.
- Coordinated team efforts in robot design, strategy development, and competition preparation.

### Work Experience

#### Renew Landscapes

##### Landscaper

Long Beach, CA

June 2023 - August 2023

- Collaborated with a team to complete projects like planting, demolition, and lawn maintenance.
- Strengthened teamwork and communication skills by coordinating tasks to ensure project efficiency.