# LIAM SEIDEL

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## EDUCATION

Palos Verdes Peninsula High School — 4.5 (w), 3.8 (uw) GPA

San Diego State University — 3.5 GPA

(B.S. in Computer Science, Minor in Applied Mathematics)

## EXPERIENCE

July AI Technical Ambassador (April 2025-Present)

- Building professional networks, delivering impactful presentations, and advocating our mission to equip workers with the skills essential for thriving in an AI-driven economy.

Artificial Intelligence Urban Computing Research Assistant (September 2024-Present)

- Using a diffusion model-based STGAIL to analyze traffic data in urban locations to create optimal traffic routes
- Optimized training steps for encoder and decoder, evaluation of
- Implemented **Pytorch** libraries like **nn** and **GCNConv**.

Coding Minds Instructor (April 2024-Present)

- Instructing on **Java**, **C++, Python** languages, and topics like Web Development and Generative AI.
- Created exercises and homework for students to complete.

Urban Youth Park Coach (May 2023-August 2024)

- Working as a gymnastics/parkour instructor for kids grades K-12.
- Gave private group and 1-on-1 lessons.

## PROJECTS

Brain Tumor Segmentation

- Detects brain tumors from CT scans using U-Net convolution image handling

AI Voice Clone

- Uses an RNN to take audio clips of the client, convert them to spectrogram data, and replicate their voice from a user input.

Portfolio

- Built from scratch using **HTML**, **CSS**, and **JavaScript**

## SDSU

### Clubs

**Artificial Intelligence Club**

- Project Lead
- Brain tumor segmentation and text-to-speech synthesis

**eLeet Coders Club**

- Built up Leetcode resume through collaboration and listened to many guest speakers.

**Tau Kappa Epsilon Fraternity**

- Philanthropy Event Organizer

### Related Coursework

- Intermediate Computer Science, Data Structures, Machine Organization, Advanced Programming Languages (C++, C, Python, Scala), Computer Architecture, Introduction to Artificial Intelligence, Machine Learning, Operating Systems, Calculus 1 & 2, Physics 1 & 2, Discrete Mathematics, Linear Algebra, Statistics, Advanced Linear Algebra,